**RENSON WINDOW VENTILATION® SPECIFICATIONS**

**Brand : Sonovent®**

**Type : Sonovent® Xlarge**

**Manufacturer and reference:**

The Sonovent® Xlarge is manufactured and supplied by Renson Ventilation

Tel: 01622 754 123 Email: vents@rensonuk.net

**Description:**

The RENSON® Sonovent® Xlarge is a thermally broken, self-regulating and acoustic window ventilator. The perforated inner profile acts as an insect mesh (removable for cleaning purposes). This window ventilator combines high airflow with high acoustic performances.

Optionally available with Pollux filter: for strongly fine dust and pollen impacted environments.

**System operation and performance:**

Self-regulating

Thermal conductivity: U-value = 2.8 W/m2K

Watertightness up to 50Pa in open position

Watertightness up to 1200Pa in closed position

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

**Airflow and sound reduction:** airslot 10 mm airslot 15mm airslot 20 mm airslot 25 mm

Dn,e,w (C;Ctr) open (dB) 48 (-1;-3) 47 (-1;-5) 43 (-1;-4) 41 (-1;-4)

Dn,e,w (C;Ctr) closed (dB) n.p.d. n.p.d. n.p.d. n.p.d.

Q at 1 Pa (l/s/m ) 11,7 17,5 25,2 26,5

Q at 1 Pa (m³/h/m) 42,1 63,0 90,7 95,4

Q at 2 Pa (l/s/m ) 16,8 24,7 35,7 37,8

Q at 2 Pa (m³/h/m) 60,5 88,9 128,5 136,1

Q at 10 Pa (l/s/m) 14,7 21,5 31,1 33,0

Q at 20 Pa (l/s/m) 12,0 17,6 25,4 26,9

Equivalent area (mm²/m) 14888 22269 32067 33721

**Dimensions / Size Range:**

Glass reduction (glazed in): 130 mm (flange 20 mm) /135 mm (flange 25 mm)

Height: 105 mm (total height with flange profiles: 145 or 150 mm)

Flange height: 20 or 25 mm

Depth / Total depth: 290 / 325 mm

Fits to glass depths of: 20, 24, 28, 32, 36, 40, 44 mm (other thicknesses available on request)

Maximum length: 2000 mm (glazed-in) or 2500 mm (at transom)

**Ventilator Construction:**

Profile: manufactured from aluminium alloy Al Mg Si 0.5.

Thermal bridge: extruded uPVC.

Pivoting and self-regulating flap: PVC.

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

Sound absorbing material: non-combustible mineral wool.

**Surface treatment:**

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, rod or cord optional (continuous adjustment).

Motorised: 24V DC (not for glazed-in installations).

**Installation:**

Preferably installed at transom (timber, PVC or aluminium). By adding L-profiles to the upper and lower side, the Sonovent® can also be placed on glass. Thermal break positions can change.

**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.