

## Built-in window louvre DucoGrille NightVent Manual

Manufactured by: DUCO Ventilation & Sun Control

This manually operated glass-replacing ventilation hatch (for glass thicknesses from 24 to 48 mm) is protected from outside by an aesthetic grille, with the option of a burglar-resistant version. Thanks to its flat inner panel, the DucoGrille NightVent boasts a sleek design.

### Features:

- Blade type: DucoGrille Solid 30Z with punching (P1) 21mm high x 2.5mm wide
- Louvre pitch: 37.5 mm
- Flange width: 30 mm
- Height: min. 350 mm, max. 2500 mm (depending on combination, see dimensions table in technical data sheet)
- Width: min. 350 mm, max. 2500 mm (depending on combination, see dimensions table in technical data sheet)
- Depth: 115 mm
- Weight: maximum 80 kg or if burglar-proof maximum 95 kg
- Material:
  - Inside and outside: aluminium Al Mg Si 0.5
  - Thermal break: PVC
  - Insulation: PIR
- Colours:
  - Interior panel: all RAL colours possible
  - Outer frame: all RAL colours possible
  - Lever: anodised F2
- Fitting: glass replacement
- Section thickness: minimum 1.2 mm
- Glass thickness: 24, 28, 32, 36, 40, 44 or 48 mm
- Visual free passage: 60 % (per metre of punching)
- Physical free area: 34 % (use the K-factor for calculation!)
- Passage: 369 L/s\*m<sup>2</sup> @ 2 Pa
- Orientation: dropping open or hinged (left or right if width < 600 mm)
- Positions: 2 (open/closed)
- Stroke: see table in technical data sheet
- Operation: manual
- Operating conditions: -25° C to +60°C

### Accessories (included):

- Optional insect-repellent stainless steel mesh 2.3 x 2.3 mm
- Optional burglary protection according to class WK2

### Surface treatment:

- Anodisation: Qualanod-compliant, coating thickness 15-20µm, standard natural colour (colourless anodisation)
- Powder coating: Qualicoat Seaside type A compliant, minimum average coating thickness 60µm, standard RAL colours 70% gloss

Upon request: other finish coating thicknesses, anodising colours and paint gloss levels, textured paints and specific powder coating product codes

### Functional specifications:

- **Flow rate:**
  - K-factor inlet: 24.51
  - K-factor outlet: 24.51
  - C<sub>e</sub> coefficient: 0.202
  - C<sub>d</sub>coefficient: 0.202
- **Water resistance**
  - v = 0.0m/s: class A
  - v = 0.5m/s: class B
  - v = 1.0m/s: class C
  - v = 1,5m/s: class D
  - v = 2.0m/s: class D
  - v = 2.5m/s: class D
  - v = 3.0m/s: class D
  - v = 3.5m/s: class D
- **Attenuation value**
  - R<sub>w</sub> open position (C;Ctr) (in dB): 10 (0;-1)
  - R<sub>w</sub> closed position (C;Ctr) (in dB): 33 (-1;-4)
- **Insulation value**
  - U = 1.5W/m<sup>2</sup>K
- **Airtightness**
  - Q<sub>n</sub> 50 overpressure = 3.6 m<sup>3</sup>/h/m<sup>2</sup>
  - Q<sub>n</sub> 50 underpressure = 2.4 m<sup>3</sup>/h/m<sup>2</sup>
  - Q<sub>n</sub> 100 underpressure = 5.4 m<sup>3</sup>/h/m<sup>2</sup>
  - Q<sub>n</sub> 100 underpressure = 3.8 m<sup>3</sup>/h/m<sup>2</sup>

### Complies with or tested in accordance with the following standards:

- Qualicoat Seaside type A (if painted finish)
- Qualanod (if anodised finish)
- EN 573 - EN AW-6063 T66 and EN AW-6060 T66: aluminium alloy & hardening
- EN 13030: water resistance and determination of C<sub>e</sub> and C<sub>d</sub> coefficients
- Class 3 - up to 600 Pa, EN 12207: air tightness
- Class 9a EN 12208, EN 1027: watertightness
- EN ISO 10140: acoustic measurements
- Class WK2: burglar resistance
- Class 2a EN 12210, EN 12211: resistance vs. wind load