Built-in window louvre DucoGrille NightVent

Manufactured by: DUCO Ventilation & Sun Control
This glass-replacing ventilation hatch (for glass thicknesses from 24 to 48 mm) with optional CO_2 and temperature measurement control 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. 300 mm, max. 2500 mm (depending on combination, see dimensions table in technical data sheet)
- Width: min. 300 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
- 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*m² @ 2 Pa
- Orientation: dropping open or hinged (left or right if width < 600 mm)
- Positions: intermediate positions possible
- Stroke: 300 mm or 200 mm if width and/or height < 700 mm
- Control: motorised, 24 VDC, 0.7 A, max. 22 W
- Speed: 8-12 mm/s at 2/3 force
- 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

We inspire at **www.duco.eu**

DUCO
Ventilation & Sun Control

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_e coefficient: 0.202
  - C_d 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
  - Rw open position (C;Ctr) (in dB): 10 (0;-1)
  - Rw closed position (C;Ctr) (in dB): 33 (-1;-4)

- Insulation value
  - U = 1.5W/m²K

- Airtightness
  - Qn 50 overpressure = 3.6 m³/h/m²
  - Qn 50 underpressure = 2.4 m³/h/m²
  - Qn 100 underpressure = 5.4 m³/h/m²
  - Qn 100 underpressure = 3.8 m³/h/m²

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 Ce and Cd 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

We inspire at **www.duco.eu**

DUCO
Ventilation & Sun Control