# 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\*m² @ 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
	+ Ce coefficient: 0.202
	+ Cdcoefficient: 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