Window louvre – DUCO Ventilation & Sun Control
DucoGrille Solid ISO F 30Z

Description

DucoGrille Solid ISO F 30Z is an architectural window louvre made of aluminium extrusion profiles. The grille has good thermal insulation thanks to the well-thought-out combination of a thermally broken frame with an insulation panel. The louvre blades offer high ventilation capacity with relatively small louvre blades. The ‘stackable’ louvre blades form a single whole, making them extra strong. The louvre blades are available with small punching (P1) or large punching (P2). A round or rectangular duct can be connected to the back of the grille. The grille with small punching (P1) is also optionally available with burglar resistance class 2 according to standards NEN 5096 and ENV 1627.

Version

- Shape of blade: 30Z
- Punching: NP – not punched
  P1 – height 21 mm x width 2,5 mm
  P2 – height 21 mm x width 18 mm
- Pitch: 37,5 mm
- Frame width: 63 mm
- Glass thickness: 24/28/32/36/40/44/48 mm
- Frame depth: 88 mm (thermally broken)
- Mesh: Punching
  P1 as insect mesh
  P2 as rodent mesh
  Stainless-steel mesh
  2,3 x 2,3 mm as insect mesh
  6 x 6 mm as rodent mesh
  20 x 20 mm as bird mesh
- Duct connection: Round duct
  maximum smallest dimension for width or height - (2x63)

  Rectangular duct
  Duct height: grille height - (2x63)
  Duct width: grille width - (2x63)
- Burglar resistant: Optional with P1 ponsing
  Class 2 (NEN 5096:2007 and ENV 1627:2011)

The following combinations are available in all glass thicknesses::

	P1	P1 Incl mesh	P2
Punching P1	S	S	-
Punching P2	-	-	S
Stainless-steel mesh 2,3 x 2,3	-	S	O
Burglar resistant (class 2)	O	O	-

S = standard O = optional

Material and surface treatment

- Aluminium EN AW-6063 T66 (EN 573-3)
  Profile thickness: min. 1,5 mm
- Insulation Akotherm
- Finish
  - Natural anodised (15-20 µm) according to Qualanod
  - Polyester powder coated (60-80 µm) according to Qualicoat Seaside type A (specific RAL codes or textured paint on request)

Technical specifications

U-value

0,9 W/m^{2}K

Burglar resistant

Optional with P1 punching: Class 2 (NEN 5096:2007 and ENV 1627:2011)

Free area

	P1 P1 incl mesh	P2
Visual free area (Per metre punching)	60 %	86 %
Physical free area	34 %	48 %

Airflow data

EN 13030	P1	P1 Incl mesh	P2
Ce	0,243	0,233	0,258
K-factor intake	16,94	18,42	15,02
Cd	0,234	0,224	0,253
K-factor exhaust	18,26	19,93	15,62

Water resistance

EN 13030	P1	P1 Incl mesh	P2
V = 0 m/s	B	C	C
V = 0,5 m/s	C	C	C
V = 1 m/s	C	C	C
V = 1,5 m/s	D	C	D
V = 2 m/s	D	D	D
V = 2,5 m/s	D	D	D
V = 3 m/s	D	D	D
V = 3,5 m/s	D	D	D