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

## Description

DucoGrille Solid F 30Z is an architectural window louvre made of aluminium extrusion profiles. 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), large punching (P2) or as false louvres (NP). The F-frame is available for glass thicknesses 24, 28 and 32 mm.

## Version

* Shape of blade 30Z
* Punching P1 – height 21 mm x width 2,5 mm

P2 – height 21 mm x width 18 mm

* Pitch 37,5 mm
* Dimensions

|  |  |  |
| --- | --- | --- |
| **Glass thickness** | **Frame width** | **Frame depth** |
| 24 | 43 | 38 |
| 28 | 40 | 42 |
| 32 | 40 | 41 |

* 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

* Drip tray profile Optional

The following combinations are available in all glass thicknesses:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **NP** | **P1** | **P1**  **Incl mesh** | **P1 + options** | **P1**  **Incl mesh**  **+ options** | **P2** | **P2**  **+ options** |
| **Punching P1** | - | S | S | S | S | - | - |
| **Punching P2** | - | - | - | - | - | S | S |
| **Stainless-steel mesh**  **2,3 x 2,3** | - | - | S | - | S | - | S |
| **Stainless-steel mesh**  **6 x 6** | - | - | - | - | O | - | O |
| **Stainless-steel mesh**  **20x20** | - | - | - | - | O | - | O |
| **Drip tray profile** | - | - | - | S | S | - | S |

S = standard O = optional

## Material and surface treatment

* Aluminium EN AW-6063 T66 (EN 573-3)

Profile thickness: min. 1,5 mm

* 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

### Reaction to fire

AS-s1,d0 (EN 13501-1)

### Fall-through protection

Class XI (BS 6180)

### Free area

|  |  |  |  |
| --- | --- | --- | --- |
|  | **NP** | **P1**  **P1 incl mesh**  **P1 + options**  **P1 incl mesh + options** | **P2**  **P2 + options** |
| **Visual free area**  **(Per metre punching)** | 0 % | 60 % | 86 % |
| **Physical free area** | 0 % | 34 % | 48 % |

### Airflow data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EN 13030** | **NP** | **P1** | **P1**  **Incl mesh** | **P1 + options** | **P1**  **Incl mesh**  **+ options** | **P2** | **P2**  **+ options** |
| **Ce** | - | 0,243 | 0,233 | 0,216 | 0,21 | 0,258 | 0,232 |
| **K-factor intake** | - | 16,94 | 18,42 | 21,43 | 22,68 | 15,02 | 18,58 |
| **Cd** | - | 0,234 | 0,224 | 0,242 | 0,226 | 0,253 | 0,266 |
| **K-factor exhaust** | - | 18,26 | 19,93 | 17,08 | 19,58 | 15,62 | 14,13 |

### Water resistance

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **EN 13030** | **NP** | **P1** | **P1**  **Incl mesh** | **P1 + options** | **P1**  **Incl mesh**  **+ options** | **P2** | **P2**  **+ options** |
| **V = 0 m/s** | - | B | C | B | A | C | B |
| **V = 0,5 m/s** | - | C | C | B | B | C | B |
| **V = 1 m/s** | - | C | C | C | B | C | B |
| **V = 1,5 m/s** | - | D | C | C | B | D | B |
| **V = 2 m/s** | - | D | D | D | B | D | C |
| **V = 2,5 m/s** | - | D | D | D | C | D | D |
| **V = 3 m/s** | - | D | D | D | D | D | D |
| **V = 3,5 m/s** | - | D | D | D | D | D | D |