

PFG30z

- > External Louvre
- > Integral Mesh
- > Large Flange

DESCRIPTION

The PFG30z is a flanged wall louvre, manufactured from extruded aluminium profiles. The perforated blade profiles act as an insect screen or bird mesh (two types of perforations). The Z shaped triple-blade extrusion ensures a robust design.

NOTES

Actual Width = Nominal (opening) -10
Actual Height = Nominal (opening) -10

Set sizes from:

200 x 200 mm to 1200 x 1200 mm
(Larger sizes available on request)

All dimensions are given in mm.

CONSTRUCTION

Frame/Blades

material: extruded aluminium

finish: polyester powder coating

Mesh

material: stainless steel or PVC insect mesh

WEATHERING PERFORMANCE

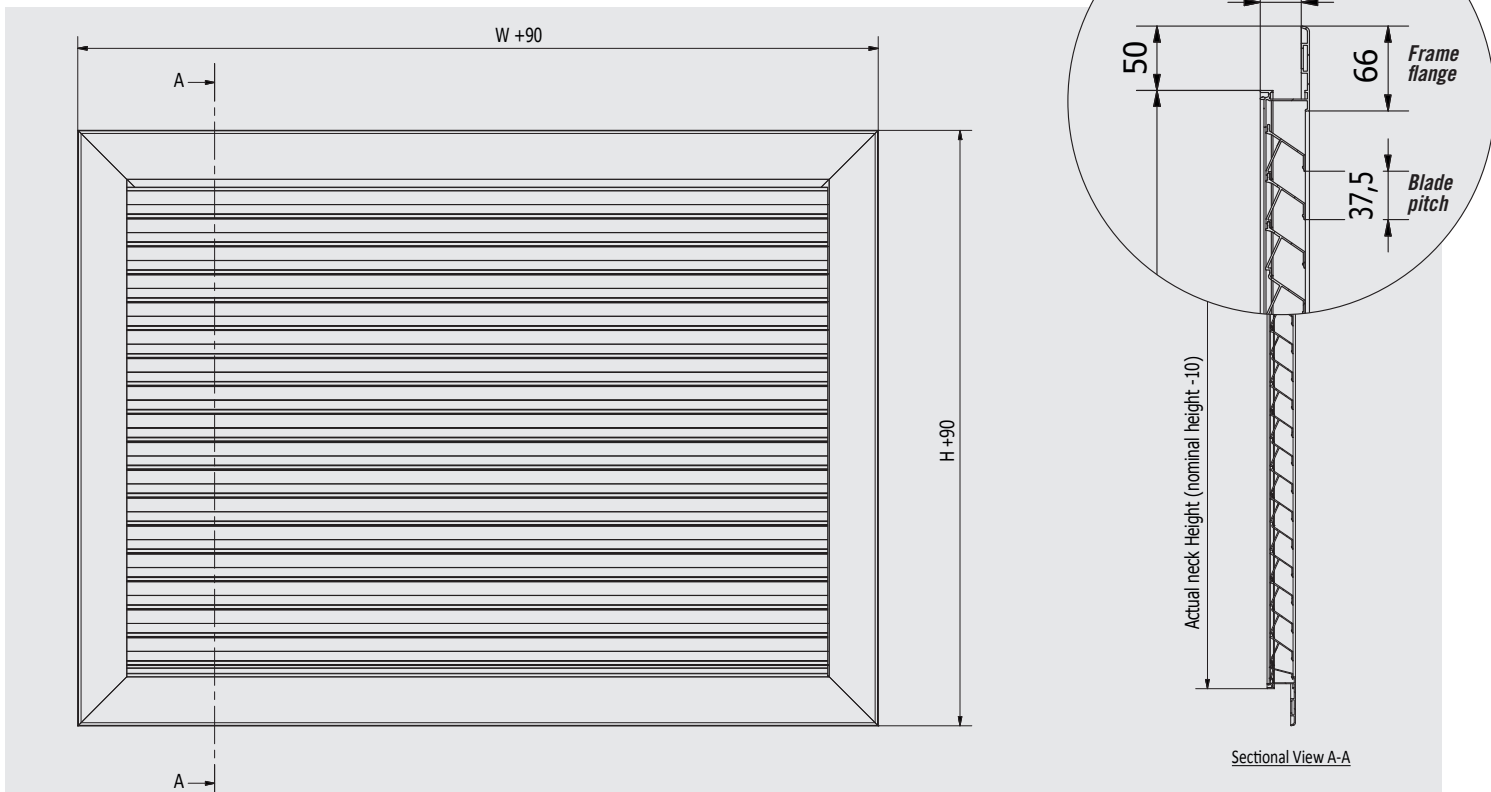
Class B to EN 13030: insect mesh
Class C to EN 13030: bird mesh

MODELS

PFG30z blade type

PFG large flange
30Z blade type

- **P1 Punch**
integral insect mesh
- **P2 Punch**
integral bird mesh
(available with optional insect mesh)
- **NP No Punch**
100% screening (dummy louvre)



PFG 30Z – SELECTION DATA (P2 Punch)

| P2 PUNCH SELECTION DATA | | | | | | | | | | | |
|--|-------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| AIRFLOW 20-100 (l/s) vs Pressure Drop (Pa) | | | | | | | | | | | |
| l/s | Height (mm) | Width (mm) | | | | | | | | | |
| | | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 20 | 150 | 20 | 11 | 7 | - | - | - | - | - | - | - |
| | 200 | 8 | 4 | - | - | - | - | - | - | - | - |
| | 250 | 4 | 2 | - | - | - | - | - | - | - | - |
| 40 | 200 | 31 | 16 | 10 | 5 | 3 | - | - | - | - | - |
| | 250 | - | 9 | 5 | 3 | - | - | - | - | - | - |
| | 300 | - | 5 | 2 | - | - | - | - | - | - | - |
| 60 | 200 | - | - | 23 | 11 | 7 | 4 | 3 | 2 | - | - |
| | 250 | - | 19 | 12 | 6 | 3 | 2 | - | - | - | - |
| | 300 | - | 7 | 4 | 2 | - | - | - | - | - | - |
| 80 | 200 | - | - | - | 20 | 12 | 8 | 5 | 4 | - | - |
| | 250 | - | 34 | 21 | 10 | 6 | 4 | 3 | 2 | - | - |
| | 300 | - | - | 13 | 6 | 4 | 2 | - | - | - | - |
| 100 | 250 | - | - | 33 | 16 | 10 | 6 | 4 | 3 | - | - |
| | 300 | - | - | 20 | 10 | 6 | 4 | 3 | - | - | - |
| | 400 | - | - | 10 | 5 | 3 | 2 | - | - | - | - |

| P2 PUNCH SELECTION DATA | | | | | | | | | | | |
|---|-------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| AIRFLOW 150-350 (l/s) vs Pressure Drop (Pa) | | | | | | | | | | | |
| l/s | Height (mm) | Width (mm) | | | | | | | | | |
| | | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 150 | 250 | - | - | - | 36 | 21 | 14 | 10 | 7 | 6 | 5 |
| | 300 | - | - | 46 | 22 | 13 | 9 | 6 | 5 | 4 | 3 |
| | 400 | - | - | - | 11 | 6 | 4 | 3 | - | - | - |
| 200 | 250 | - | - | - | - | 38 | 25 | 18 | 13 | 10 | 8 |
| | 300 | - | - | - | 40 | 23 | 15 | 11 | 8 | 6 | 5 |
| | 400 | - | - | - | 19 | 11 | 8 | 5 | 4 | 3 | - |
| 250 | 300 | - | - | - | - | 37 | 24 | 17 | 13 | 10 | 8 |
| | 400 | - | - | - | 30 | 18 | 12 | 8 | 6 | 5 | 4 |
| | 500 | - | - | - | - | 11 | 7 | 5 | 4 | 3 | - |
| 300 | 300 | - | - | - | - | - | 35 | 25 | 18 | 14 | 11 |
| | 400 | - | - | - | - | 26 | 17 | 12 | 7 | 5 | 4 |
| | 500 | - | - | - | - | 15 | 10 | 7 | 5 | 4 | 3 |
| 350 | 300 | - | - | - | - | - | 47 | 34 | 25 | 19 | 15 |
| | 400 | - | - | - | - | 35 | 23 | 16 | 12 | 4 | 8 |
| | 500 | - | - | - | - | 21 | 14 | 10 | 7 | 6 | 4 |

| AIRFLOW 400-800 (l/s) vs Pressure Drop (Pa) | | | | | | | | | | | |
|---|-------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| l/s | Height (mm) | Width (mm) | | | | | | | | | |
| | | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 400 | 400 | - | - | - | - | - | 30 | 21 | 16 | 12 | 10 |
| | 500 | - | - | - | - | 27 | 18 | 13 | 9 | 7 | 6 |
| | 600 | - | - | - | - | - | 12 | 8 | 6 | 5 | 4 |
| 500 | 400 | - | - | - | - | - | - | 33 | 25 | 19 | 15 |
| | 500 | - | - | - | - | - | 28 | 20 | 15 | 11 | 9 |
| | 600 | - | - | - | - | - | 18 | 13 | 10 | 8 | 6 |
| 600 | 500 | - | - | - | - | - | - | 28 | 21 | 16 | 13 |
| | 600 | - | - | - | - | - | 26 | 19 | 14 | 11 | 9 |
| | 700 | - | - | - | - | - | - | 13 | 10 | 8 | 6 |
| 700 | 600 | - | - | - | - | - | - | 26 | 19 | 15 | 12 |
| | 700 | - | - | - | - | - | - | 18 | 13 | 10 | 8 |
| | 800 | - | - | - | - | - | - | - | 10 | 8 | 6 |
| 800 | 600 | - | - | - | - | - | - | - | 25 | 19 | 15 |
| | 700 | - | - | - | - | - | - | 24 | 18 | 10 | 8 |
| | 800 | - | - | - | - | - | - | - | 13 | 10 | 8 |

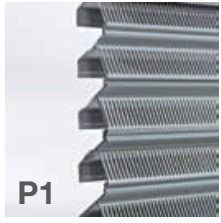
| AIRFLOW 1000-2000 (l/s) vs Pressure Drop (Pa) | | | | | | | | | | | | |
|---|-------------|------------|-----|-----|-----|-----|-----|-----|-----|-----|------|----|
| l/s | Height (mm) | Width (mm) | | | | | | | | | | |
| | | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 | |
| 1000 | 700 | - | - | - | - | - | - | - | 37 | 27 | 21 | 17 |
| | 800 | - | - | - | - | - | - | - | - | 20 | 16 | 13 |
| | 900 | - | - | - | - | - | - | - | - | - | 12 | 10 |
| 1250 | 700 | - | - | - | - | - | - | - | 58 | 43 | 33 | 27 |
| | 800 | - | - | - | - | - | - | - | - | 32 | 25 | 20 |
| | 900 | - | - | - | - | - | - | - | - | - | 14 | 15 |
| 1500 | 800 | - | - | - | - | - | - | - | - | - | 36 | 28 |
| | 900 | - | - | - | - | - | - | - | - | - | 28 | 22 |
| | 1000 | - | - | - | - | - | - | - | - | - | - | 18 |
| 1750 | 800 | - | - | - | - | - | - | - | - | - | 49 | 39 |
| | 900 | - | - | - | - | - | - | - | - | - | 38 | 30 |
| | 1000 | - | - | - | - | - | - | - | - | - | - | 24 |
| 2000 | 800 | - | - | - | - | - | - | - | - | - | - | 51 |
| | 900 | - | - | - | - | - | - | - | - | - | 49 | 39 |
| | 1000 | - | - | - | - | - | - | - | - | - | - | 31 |

The above tables show a selection of all possibilities. Height and length are not limited to the above dimensions.

KEY INFORMATION

For sizes above 1000 x 1000 or above 2000 l/s aerodynamic performance (over page) can be used.

PFG30z – EFD SIMULATION



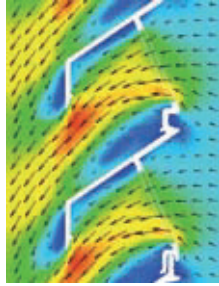
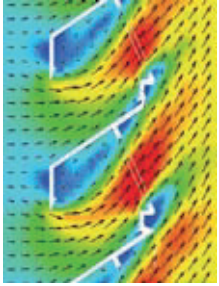
P1

P1 Punch

Integral insect mesh
34% free area
(2.3 x 2.3 mm)

/IN

/OUT



| K-factor |
|---------------|
| Intake: 17.70 |
| Ce: 0.24 |

| K-factor |
|----------------|
| Exhaust: 19.13 |
| Cd: 0.23 |



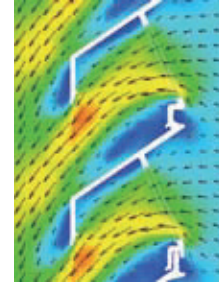
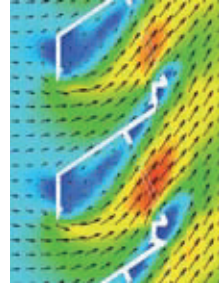
P2

P2 Punch

Integral bird mesh
48% free area

/IN

/OUT



| K-factor |
|---------------|
| Intake: 12.85 |
| Ce: 0.28 |

| K-factor |
|----------------|
| Exhaust: 12.90 |
| Cd: 0.28 |

FREE AREA (cm²)

| Height (mm) | Width (mm) | | | | | | | | | |
|-------------|------------|-----|-----|-----|-------|-------|-------|-------|-------|-------|
| | 200 | 250 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |
| 150 | 58 | 81 | 103 | - | - | - | - | - | - | - |
| 200 | 94 | 130 | 165 | 237 | 308 | 379 | 450 | 522 | - | - |
| 250 | - | 179 | 228 | 326 | 425 | 523 | 621 | 719 | 818 | 916 |
| 300 | - | - | 291 | 416 | 541 | 666 | 792 | 917 | 1,042 | 1,168 |
| 400 | - | - | - | 595 | 774 | 954 | 1,133 | 1,312 | 1,492 | 1,671 |
| 500 | - | - | - | - | 1,008 | 1,241 | 1,474 | 1,708 | 1,941 | 2,174 |
| 600 | - | - | - | - | - | 1,528 | 1,816 | 2,103 | 2,390 | 2,677 |
| 700 | - | - | - | - | - | - | 2,157 | 2,498 | 2,839 | 3,181 |
| 800 | - | - | - | - | - | - | - | 2,893 | 3,289 | 3,684 |
| 900 | - | - | - | - | - | - | - | - | 3,738 | 4,187 |
| 1000 | - | - | - | - | - | - | - | - | - | 4,691 |

KEY INFORMATION

Effective size:

Nominal size -58 mm (up to 1000 x 1000 mm)

Minimum recommended height 200 mm

10,000 cm² = 1m² free area.

For sizes above 1000 x 1000 free area aerodynamic performance can be used for selection.