



PF30z

- > External Glazing Louvre
- > Integral Mesh
- > Architectural Window Frame

DESCRIPTION

The PF30z is an architectural window louvre manufactured from extruded aluminium profiles. The stackable blades guarantee a unique robustness. The perforated blade profiles act as an insect screen (2 types of perforations). The Z shaped blade ensures a robust design.

WEATHERING PERFORMANCE

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

CONSTRUCTION

Frame/Blades

material: extruded aluminium
finish: polyester powder coating

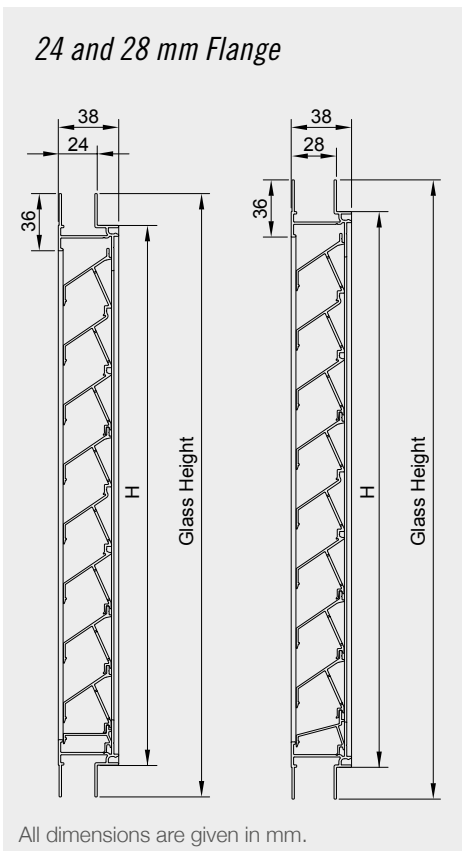
Mesh

material: stainless steel or PVC insect mesh

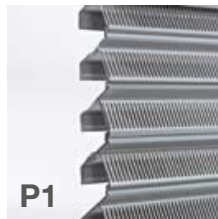
MODELS

PF30z blade type

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



EFD SIMULATION



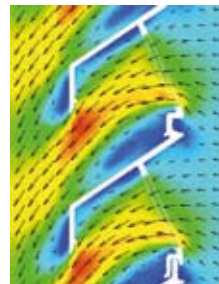
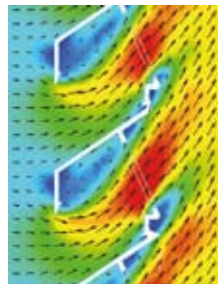
P1

P1 Punch

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

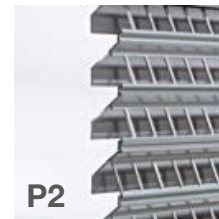
/IN

/OUT



Aerodynamic performance

K-factor
Intake: 17.70
Ce: 0.24



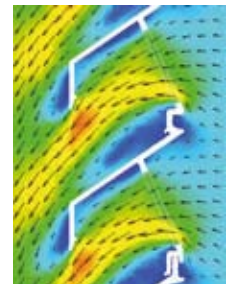
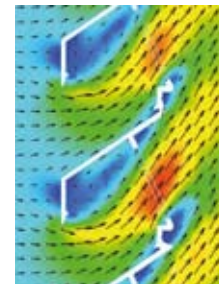
P2

P2 Punch

Integral bird mesh
48% free area

/IN

/OUT



Aerodynamic performance

K-factor
Intake: 12.85
Ce: 0.28

K-factor
Exhaust: 12.90
Cd: 0.28

PF30Z – SELECTION DATA

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	-	-	41	-	-	-	-	-	-	-
	200	36	15	-	-	-	-	-	-	-	-
	250	15	6	-	-	-	-	-	-	-	-
40	200	-	-	32	14	8	-	-	-	-	-
	250	-	25	13	6	-	-	-	-	-	-
	300	-	13	3	-	-	-	-	-	-	-
60	200	-	-	-	31	17	11	8	5	-	-
	250	-	-	30	13	7	5	-	-	-	-
	300	-	-	16	7	4	-	-	-	-	-
80	200	-	-	-	-	31	19	13	10	-	-
	250	-	-	-	23	13	8	6	4	-	-
	300	-	-	29	12	7	4	-	-	-	-
100	250	-	-	-	36	20	13	9	6	-	-
	300	-	-	45	19	11	7	5	-	-	-
	400	-	-	19	8	5	3	-	-	-	-

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	-	-	-	-	44	28	19	14	11	9
	300	-	-	-	44	24	15	11	8	6	5
	400	-	-	-	19	10	7	5	-	-	-
200	250	-	-	-	-	-	35	25	19	15	15
	300	-	-	-	-	43	27	19	14	10	8
	400	-	-	-	33	18	12	8	6	4	-
250	250	-	-	-	-	-	-	39	30	24	24
	300	-	-	-	-	42	29	21	16	13	13
	400	-	-	-	-	29	18	13	9	7	6
300	300	-	-	-	-	-	42	31	24	19	19
	400	-	-	-	-	41	26	18	10	7	6
	500	-	-	-	-	23	15	10	7	6	4
350	300	-	-	-	-	-	-	42	32	25	25
	400	-	-	-	-	-	36	25	18	14	11
	500	-	-	-	-	31	20	14	10	8	6

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	-	-	-	-	-	32	24	18	14	14
	500	-	-	-	-	41	26	18	13	10	8
	600	-	-	-	-	-	16	11	8	6	5
500	400	-	-	-	-	-	-	37	28	22	22
	500	-	-	-	-	-	40	28	20	15	12
	600	-	-	-	-	-	26	18	13	10	8
600	500	-	-	-	-	-	40	29	22	18	18
	600	-	-	-	-	-	37	25	19	14	11
	700	-	-	-	-	-	-	17	13	10	8
700	600	-	-	-	-	-	35	25	19	15	15
	700	-	-	-	-	-	24	17	13	10	10
	800	-	-	-	-	-	-	13	10	8	8
800	600	-	-	-	-	-	-	33	25	20	20
	700	-	-	-	-	-	31	23	13	10	10
	800	-	-	-	-	-	-	17	13	10	10

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	-	-	-	-	-	-	49	36	27	21
	800	-	-	-	-	-	-	-	26	20	16
	900	-	-	-	-	-	-	-	-	15	12
1250	700	-	-	-	-	-	-	-	-	42	33
	800	-	-	-	-	-	-	-	41	31	24
	900	-	-	-	-	-	-	-	-	24	19
1500	800	-	-	-	-	-	-	-	-	45	35
	900	-	-	-	-	-	-	-	-	34	27
	1000	-	-	-	-	-	-	-	-	-	18
1750	800	-	-	-	-	-	-	-	-	-	48
	900	-	-	-	-	-	-	-	-	46	36
	1000	-	-	-	-	-	-	-	-	-	24
2000	800	-	-	-	-	-	-	-	-	-	-
	900	-	-	-	-	-	-	-	-	-	48
	1000	-	-	-	-	-	-	-	-	-	31

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

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

KEY INFORMATION

Effective size:

Glass size -110 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.

FREE AREA (cm ²)										
Height (mm)	Width (mm)									
	200	250	300	400	500	600	700	800	900	1000
150	19	30	41	-	-	-	-	-	-	-
200	44	68	92	141	190	238	287	335	-	-
250	-	106	144	219	295	370	446	522	597	673
300	-	-	195	298	400	503	605	708	811	913
400	-	-	-	454	611	767	924	1,081	1,237	1,394
500	-	-	-	-	821	1,032	1,243	1,453	1,664	1,874
600	-	-	-	-	-	1,297	1,561	1,826	2,090	2,355
700	-	-	-	-	-	-	1,880	2,198	2,517	2,836
800	-	-	-	-	-	-	-	2,571	2,944	3,316
900	-	-	-	-	-	-	-	-	3,370	3,797
1000	-	-	-	-	-	-	-	-	-	4,277