

EG Egg Crate Grille





CONSTRUCTIONS & MATERIALS

- Standard 92% free area
- 90° crate profile
- Highly customizable grille shape
- Optional removable core vanes
- Grille sizing :
 - i) Minimum size: BS.150mm x 150mm
 - ii) Maximum size: BS.3000mm x 1400mm
- Grid size : 12mm x 12mm x 12mm

Construction Available



Stainless Steel

Frame Construction



Extruded Aluminium

Grid Construction



Aluminium

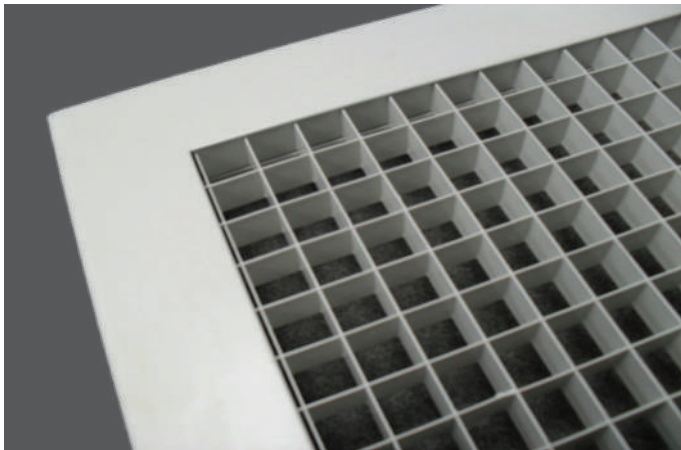
Surface Finishing



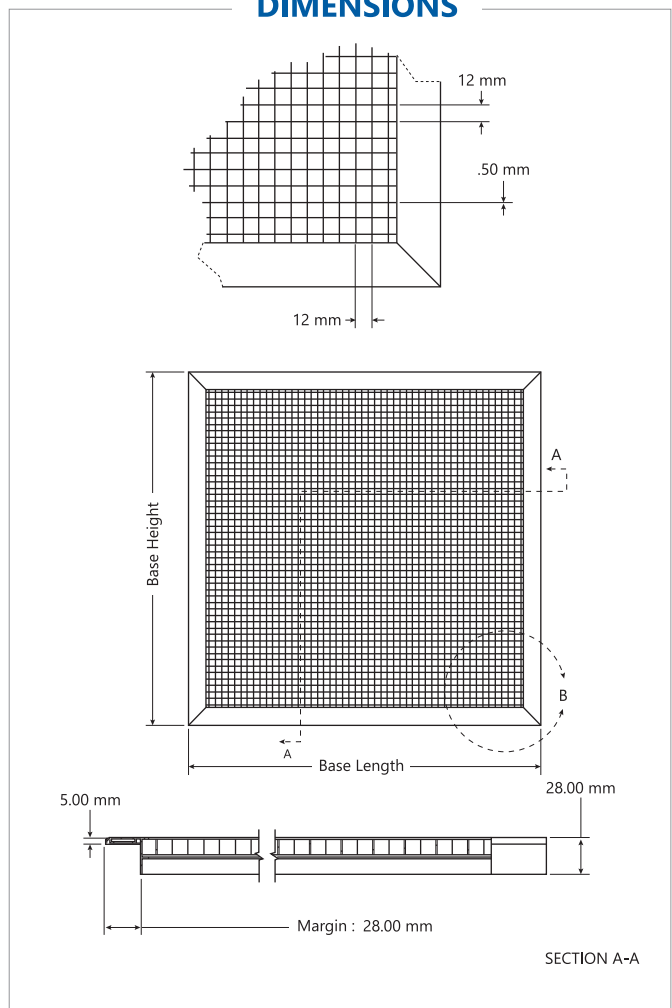
White (Matt)
Customizable Color



White (Matt)

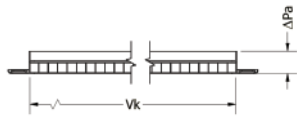


DIMENSIONS



TECHNICAL PERFORMANCE DATA

Exhaust



* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40		NR50		
			250 70	400 112	600 168	800 224	1000 280	1500 420	2000 560	2500 700	4000 1120
150 x 250	0.038 (0.032)	Face Velocity, m/s	2.2	3.5	5.2	7.0	-	-	-	-	-
		Total Pressure Loss, Pa	2.0	6.0	12.5	20	-	-	-	-	-
		Noise Rating (NR)	<20	30	47	>50	-	-	-	-	-
150 x 300	0.045 (0.038)	Face Velocity, m/s	1.8	2.9	4.4	5.8	7.3	-	-	-	-
		Total Pressure Loss, Pa	<2	5.0	8.0	17.5	22.5	-	-	-	-
		Noise Rating (NR)	<20	30	40	50	>50	-	-	-	-
150 x 400	0.06 (0.051)	Face Velocity, m/s	-	2.2	3.3	4.4	5.5	8.2	-	-	-
		Total Pressure Loss, Pa	-	2.5	5.0	10	15	25	-	-	-
		Noise Rating (NR)	-	20	34	43	50	>50	-	-	-
150 x 500	0.075 (0.064)	Face Velocity, m/s	-	-	2.6	3.5	4.4	6.6	-	-	-
		Total Pressure Loss, Pa	-	-	3.0	5.0	7.0	17.5	-	-	-
		Noise Rating (NR)	-	-	25	35	43	51	-	-	-
300 x 300	0.09 (0.077)	Face Velocity, m/s	-	-	2.2	2.9	3.7	5.5	7.3	-	-
		Total Pressure Loss, Pa	-	-	2.2	4.0	6.0	12.5	20	-	-
		Noise Rating (NR)	-	-	20	30	37	50	>60	-	-
300 x 400	0.12 (0.102)	Face Velocity, m/s	-	-	-	2.2	2.7	4.1	5.5	6.9	-
		Total Pressure Loss, Pa	-	-	-	2.2	3.5	6.0	12	18	-
		Noise Rating (NR)	-	-	-	20	27	40	50	>60	-
300 x 500	0.15 (0.128)	Face Velocity, m/s	-	-	-	-	2.2	3.3	4.4	5.5	-
		Total Pressure Loss, Pa	-	-	-	-	2.0	5.0	6.0	12.5	-
		Noise Rating (NR)	-	-	-	-	20	33	45	55	-
300 x 600	0.18 (0.153)	Face Velocity, m/s	-	-	-	-	-	2.7	3.7	4.6	7.3
		Total Pressure Loss, Pa	-	-	-	-	-	3.0	5.0	7.0	18
		Noise Rating (NR)	-	-	-	-	-	25	37	45	>60
300 x 800	0.24 (0.204)	Face Velocity, m/s	-	-	-	-	-	2.1	2.7	3.4	5.5
		Total Pressure Loss, Pa	-	-	-	-	-	<2	3.0	4.5	12.5
		Noise Rating (NR)	-	-	-	-	-	<20	30	36	55
300 x 1000	0.3 (0.255)	Face Velocity, m/s	-	-	-	-	-	-	2.2	2.7	4.4
		Total Pressure Loss, Pa	-	-	-	-	-	-	<2	2.7	7.0
		Noise Rating (NR)	-	-	-	-	-	-	23	27	45

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40		NR50		
			250 70	400 112	600 168	800 224	1000 280	1500 420	2000 560	2500 700	
400 x 400	0.16 (0.136)	Face Velocity, m/s	-	-	-	-	2.1	3.1	4.1	5.1	8.2
		Total Pressure Loss, Pa	-	-	-	-	<2	4.0	6.0	10	25
		Noise Rating (NR)	-	-	-	-	<20	28	42	47	>60
400 x 600	0.24 (0.204)	Face Velocity, m/s	-	-	-	-	-	2.1	2.7	3.4	5.5
		Total Pressure Loss, Pa	-	-	-	-	-	<2	3.0	4.5	6.0
		Noise Rating (NR)	-	-	-	-	-	<20	30	36	43
400 x 800	0.32 (0.272)	Face Velocity, m/s	-	-	-	-	-	-	2.1	2.6	4.1
		Total Pressure Loss, Pa	-	-	-	-	-	-	<2	2.5	6.0
		Noise Rating (NR)	-	-	-	-	-	-	20	27	43
400 x 1000	0.4 (0.340)	Face Velocity, m/s	-	-	-	-	-	-	-	2.1	3.3
		Total Pressure Loss, Pa	-	-	-	-	-	-	-	<2	4.0
		Noise Rating (NR)	-	-	-	-	-	-	-	<20	36

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25		NR35		NR40		NR50		
			250 70	400 112	600 168	800 224	1000 280	1500 420	2000 560	2500 700	
500 x 600	0.3 (0.255)	Face Velocity, m/s	-	-	-	-	-	-	-	2.7	4.4
		Total Pressure Loss, Pa	-	-	-	-	-	-	-	2.0	4.3
		Noise Rating (NR)	-	-	-	-	-	-	-	23	38
500 x 800	0.4 (0.340)	Face Velocity, m/s	-	-	-	-	-	-	-	2.1	3.3
		Total Pressure Loss, Pa	-	-	-	-	-	-	-	<2	2.5
		Noise Rating (NR)	-	-	-	-	-	-	-	<20	27
500 x 1000	0.5 (0.425)	Face Velocity, m/s	-	-	-	-	-	-	-	-	2.6
		Total Pressure Loss, Pa	-	-	-	-	-	-	-	-	1.5
		Noise Rating (NR)	-	-	-	-	-	-	-	-	20

EGG CRATE TECHNICAL SPECIFICATION

Frame Construction

1. Frame to be in extruded aluminium. Frame thickness should be in minimum 0.9mm thick, unless otherwise stated.
2. The margin to be in 28mm from the neck height to the edge.
3. Frame height to be in 28mm.
4. The corner of the frame should be pressed with a 90° corner piece to ensure the frames are in 90°.
5. Removable core designs are available upon request.

Core Construction

1. Crate to be in aluminium crate. Grid size with 12mm x 12mm x 12mm, unless otherwise stated
2. Crate to be in 0.5mm thick.

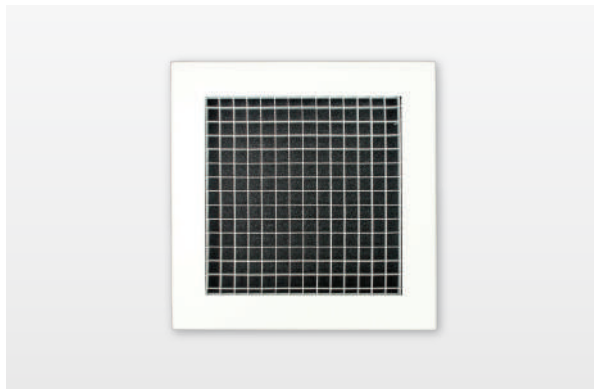
Finishing

1. White powder coated, oven baked as standard. RAL 9010 SG or HY 1001/A127. Others available upon request.

Performance

1. Free area of the grille to be in 92%.
2. Grid profile to be in 90° only.
3. Egg Crate are designed to be ceiling mounted.

AVAILABLE TYPES



Fixed



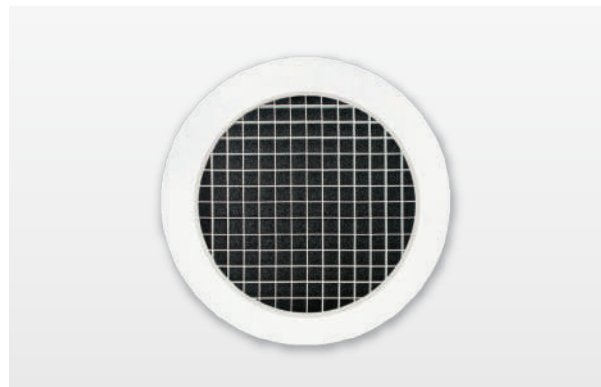
Double Margin

Removable



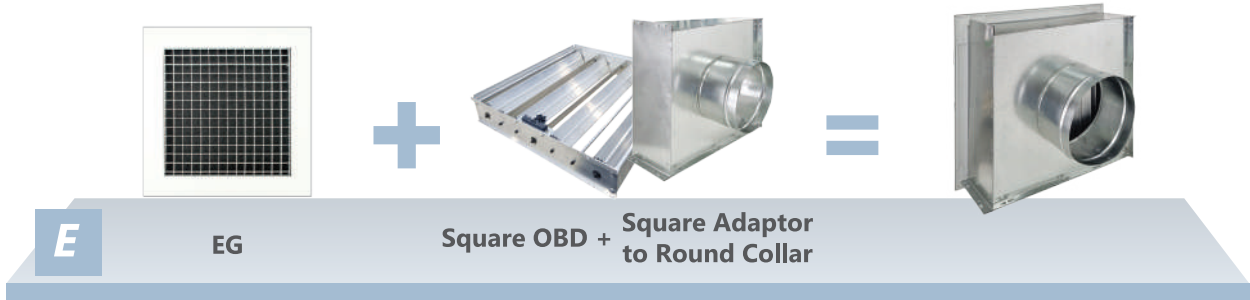
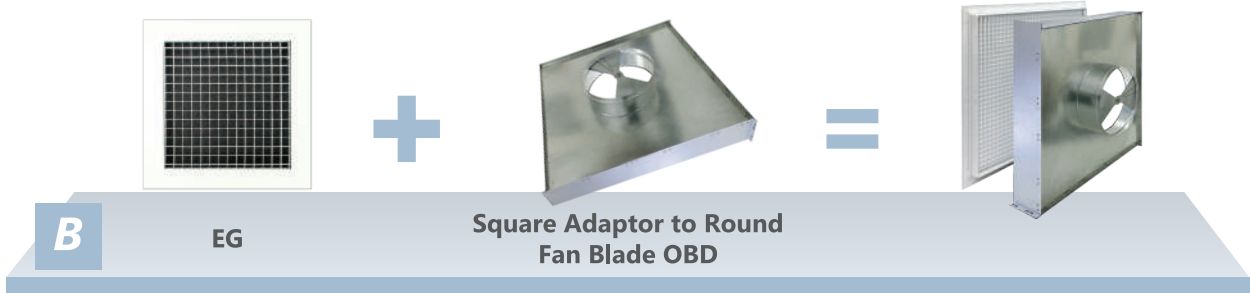
Push & Sit Down

Removable



Round

GRILLE + ACCESSORIES COMBINATION



EG | Egg Crate Grille



Products Range

Grilles



Diffusers



Dampers



Fire & Smoke Protection



VAV



Others



Accessories



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