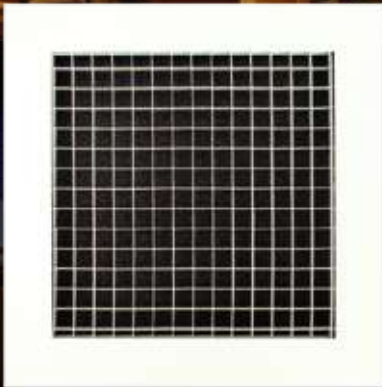
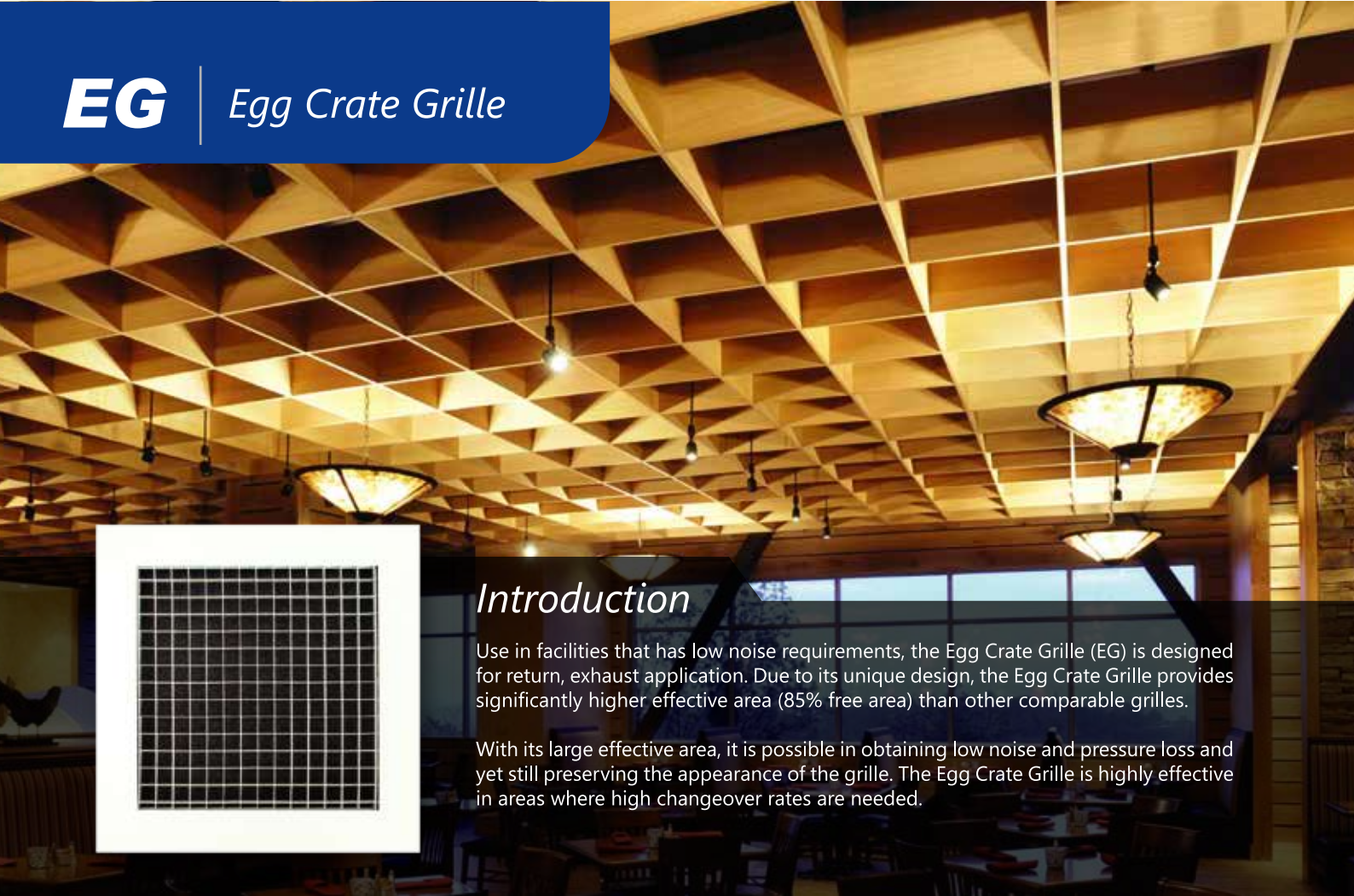




EG *Egg Crate Grille*





Introduction

Use in facilities that has low noise requirements, the Egg Crate Grille (EG) is designed for return, exhaust application. Due to its unique design, the Egg Crate Grille provides significantly higher effective area (85% free area) than other comparable grilles.

With its large effective area, it is possible in obtaining low noise and pressure loss and yet still preserving the appearance of the grille. The Egg Crate Grille is highly effective in areas where high changeover rates are needed.

CONSTRUCTIONS & MATERIALS

- 90° crate profile
- Highly customizable grille shape
- Optional removable core vanes
- Grille sizing :
 - Minimum size: 100mm x 100mm
 - Maximum size: 1200mm x 1200mm
- Grid size : 12mm x 12mm x 12mm

Construction Available



Stainless Steel

Frame Construction



Extruded Aluminium

Grid Construction



Aluminium

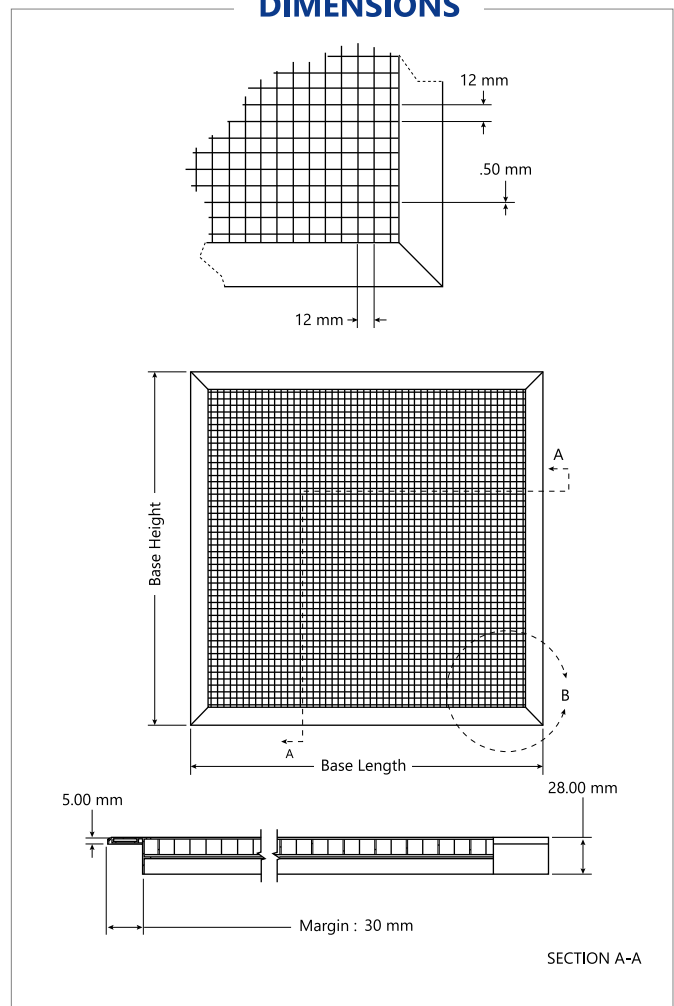
Surface Finishing



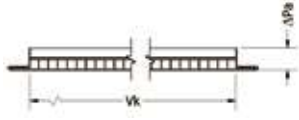
White (Matt)
Customizable Color



DIMENSIONS



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	Noise Rating (NR)									
			250 70	400 112	600 168	800 224	1000 280	1500 420	2000 560	2500 700	4000 1120	
150 x 250	0.0375 (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	Noise Rating (NR)									
			250 70	400 112	600 168	800 224	1000 280	1500 420	2000 560	2500 700	4000 1120	
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	3.0	2.5	6.0	-
		Noise Rating (NR)	-	-	-	-	-	20	27	27	43	-
400 x 1000	0.4 (0.34)	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	Noise Rating (NR)									
			250 70	400 112	600 168	800 224	1000 280	1500 420	2000 560	2500 700	4000 1120	
500 x 600	0.3 (0.193)	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 (0.278)	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 (0.347)	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 1.2mm 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.

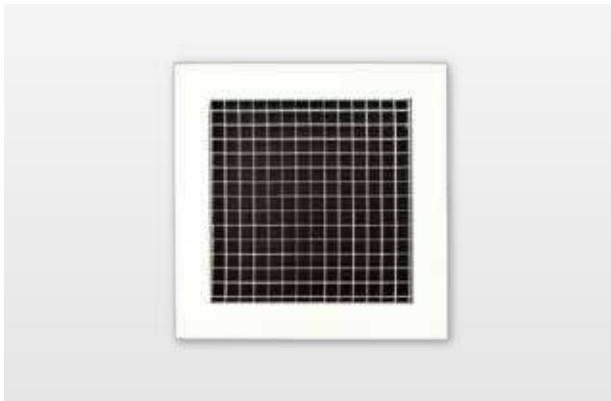
Finishing

1. Finishing to be in powder coated RAL 9010 SG white matt, unless otherwise stated.

Performance

1. Free area of the grill to be in 85%.
2. Grid profile to be in 90° only.
3. Egg Crate are designed to be ceiling mounted.

AVAILABLE TYPES



Fixed



Double Margin

Removable



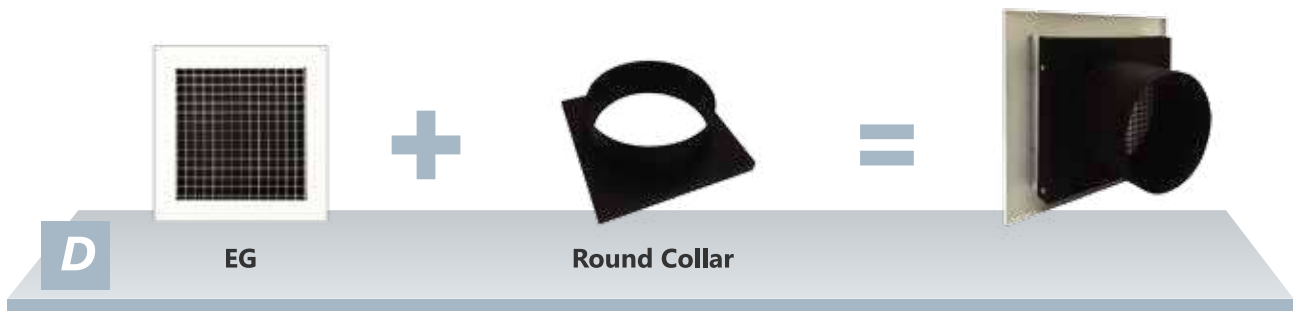
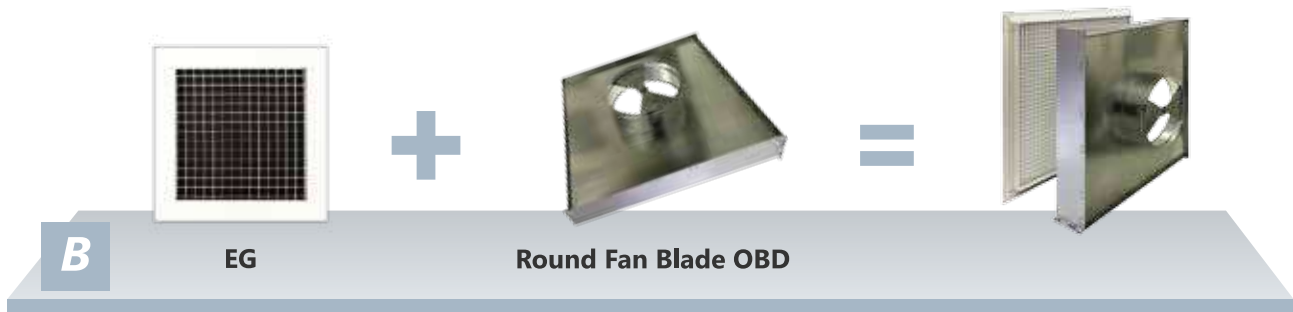
Push & Sit Down

Removable



Round



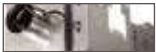


GRILLE + ACCESSORIES COMBINATION



EG | Egg Crate Grille



Products Range

- Grilles 
- Diffusers 
- Dampers 
- Fire & Smoke Protection 
- VAV 
- Others 
- Accessories 



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