

FBG Floor Bar Grille

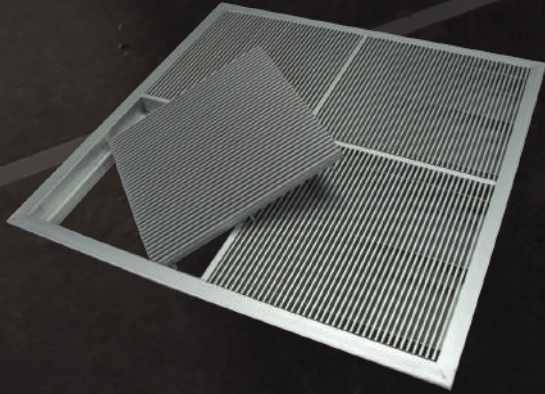




Introduction

Unlike other conventional floor bar grilles, Prudent Air Floor Bar Grille with its optional removable core grilles are designed to provide both aesthetic value as well as the highest flexibility in throw direction as required. Fabricated from heavy duty aluminium materials, Prudent Aire Floor Bar Grille are able to withstand an average load of 4.5kN on a 25mm x 25mm area, which is in accordance to the European standard EN13264-heavy structural classification.

Designed for access floor system where the Under Floor Air Distribution (UFAD) system is implemented, the AFBG 50 series is suitable for both supply and return air applications. Installation into access floor is done from the top, hence removal of floor tiles is not necessary.



CONSTRUCTIONS & MATERIALS

- Standard 51% free area
- Standard 300mm x 300mm & 600mm x 600mm size
- Standard vanes pitch 6mm (Customizable upon request)
- 0° & 15° deflection configurations
- Customizable vanes profile & grille size
- Standard 23mm margin
- Customizable upon request
- Stainless steel construction available

Frame Construction



Extruded Heavy Duty Aluminium

Vanes Construction



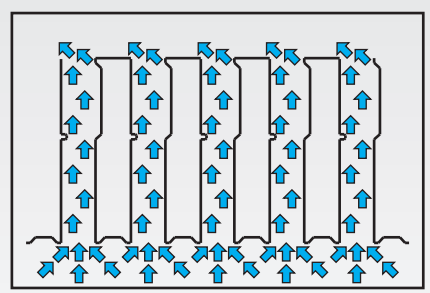
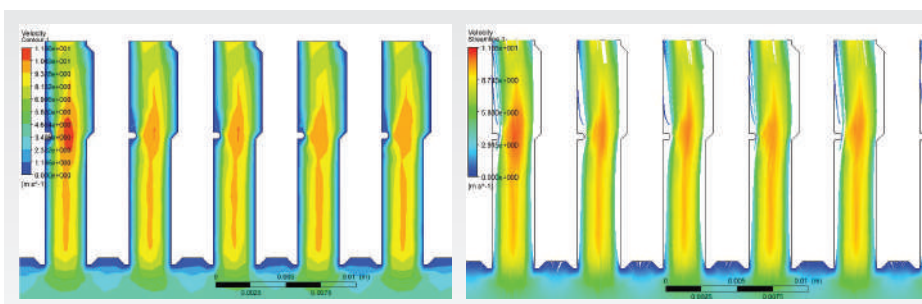
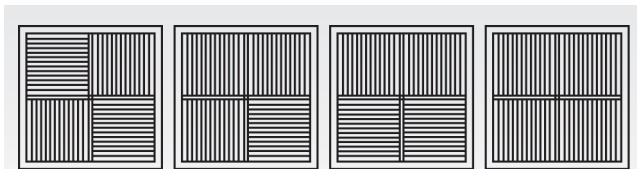
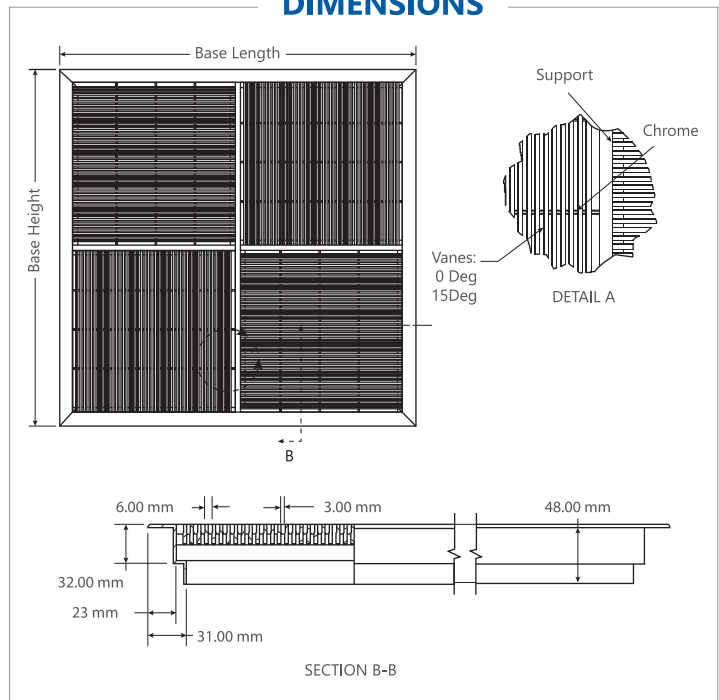
Extruded Heavy Duty Aluminium

Bracket & Support Construction



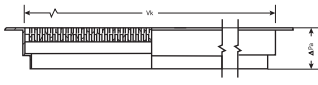
Extruded Heavy Duty Aluminium

DIMENSIONS



TECHNICAL PERFORMANCE DATA

Supply



Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR15		NR25		NR35				
			179 50	357 100	536 150	714 200	1072 300	1428 400	1607 450	1786 500	2144 600
300 x 300	0.09 (0.0335)	Face Velocity, m/s	1.5	3.0	4.5	6.0	-	-	-	-	-
		Total Pressure Loss, Pa	<4	7	15	29	-	-	-	-	-
		Noise Rating (NR)	<15	<15	26	35	-	-	-	-	-
600 x 600	0.36 (0.1339)	Face Velocity, m/s	-	0.7	1.1	1.5	2.2	3.0	3.4	3.7	4.5
		Total Pressure Loss, Pa	-	<4	<4	<4	4	7	9	11	15
		Noise Rating (NR)	-	<15	<15	<15	<15	<15	20	22	26

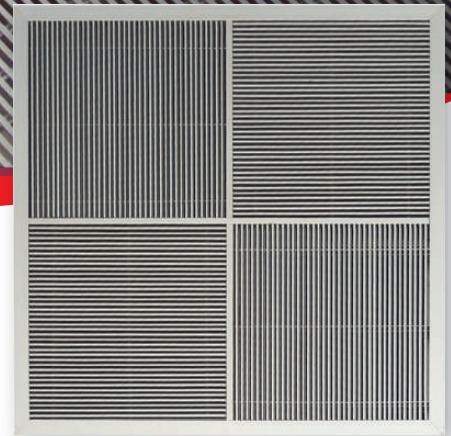
* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR15		NR25		NR35				
			179 50	357 100	536 150	714 200	1072 300	1428 400	1607 450	1786 500	2144 600
300 x 400	0.12 (0.0447)	Face Velocity, m/s	-	2.2	3.3	4.4	-	-	-	-	-
		Total Pressure Loss, Pa	-	4	9	15	-	-	-	-	-
		Noise Rating (NR)	-	<15	16	30	-	-	-	-	-
300 x 600	0.18 (0.0670)	Face Velocity, m/s	-	1.5	2.2	3.0	-	-	-	-	-
		Total Pressure Loss, Pa	-	<4	4	7	-	-	-	-	-
		Noise Rating (NR)	-	<15	22	28	-	-	-	-	-
300 x 1200	0.36 (0.1339)	Face Velocity, m/s	-	0.7	1.1	1.5	2.2	3.0	3.4	3.7	4.5
		Total Pressure Loss, Pa	-	<4	<4	<4	4	7	9	11	15
		Noise Rating (NR)	-	<15	<15	<15	<15	<15	20	22	26








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			179 50	357 100	536 150	714 200	1072 300	1428 400	1607 450	1786 500	2144 600
400 x 400	0.16 (0.0595)	Face Velocity, m/s	-	1.7	2.5	3.3	-	-	-	-	-
		Total Pressure Loss, Pa	-	<4	5.3	9	-	-	-	-	-
		Noise Rating (NR)	-	<15	23	29	-	-	-	-	-
400 x 600	0.24 (0.0893)	Face Velocity, m/s	-	1.1	1.7	2.2	-	-	-	-	-
		Total Pressure Loss, Pa	-	<4	<4	4	-	-	-	-	-
		Noise Rating (NR)	-	<15	<15	24	-	-	-	-	-



FBG | *Floor Bar Grille*



Products Range

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



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