



**FBG** Floor Bar Grille

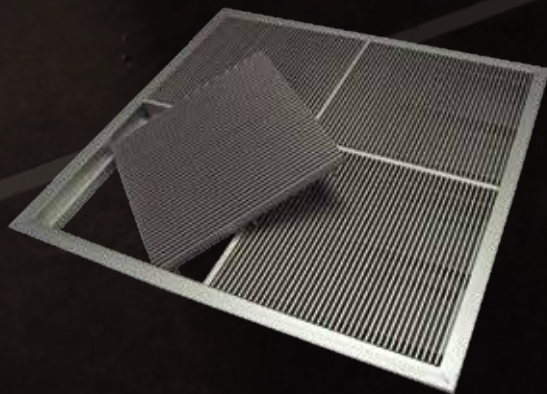




## Introduction

Unlike other conventional floor bar grilles, Prudentaire's Floor Bar Grille with its optional removable core grilles is designed to provide both aesthetic value as well as the highest flexibility in throw direction as required. Fabricated from heavy duty aluminium materials, the Floor Bar Grille is able to withstand an average load of 4.5kN on a 25mm x 25mm<sup>2</sup> 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 300mm x 300mm & 600mm x 600mm size
- Standard vanes pitch 6mm (Customizable upon request)
- 0° & 15° deflection configurations
- Customizable vanes profile & grille size
- Standard 25mm margin
- Customizable upon request
- Stainless steel construction available

### Frame Construction



Extruded Heavy Duty Aluminium

### Vanes Construction



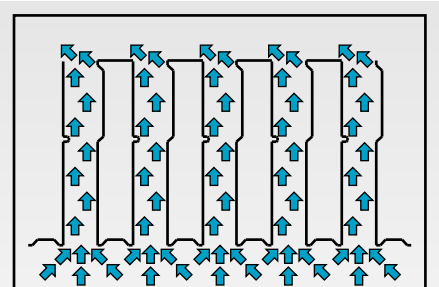
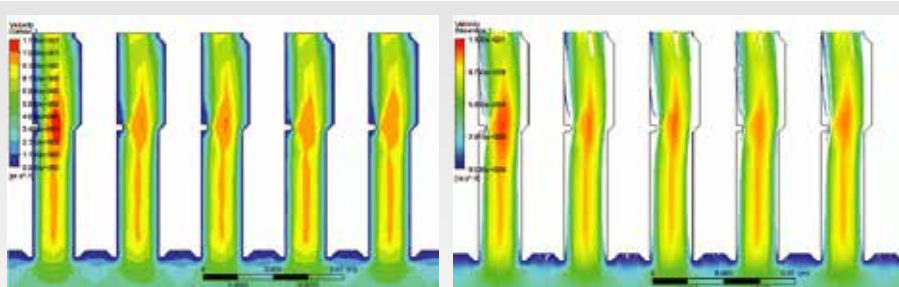
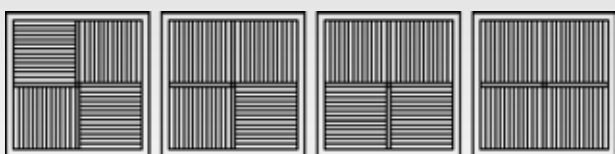
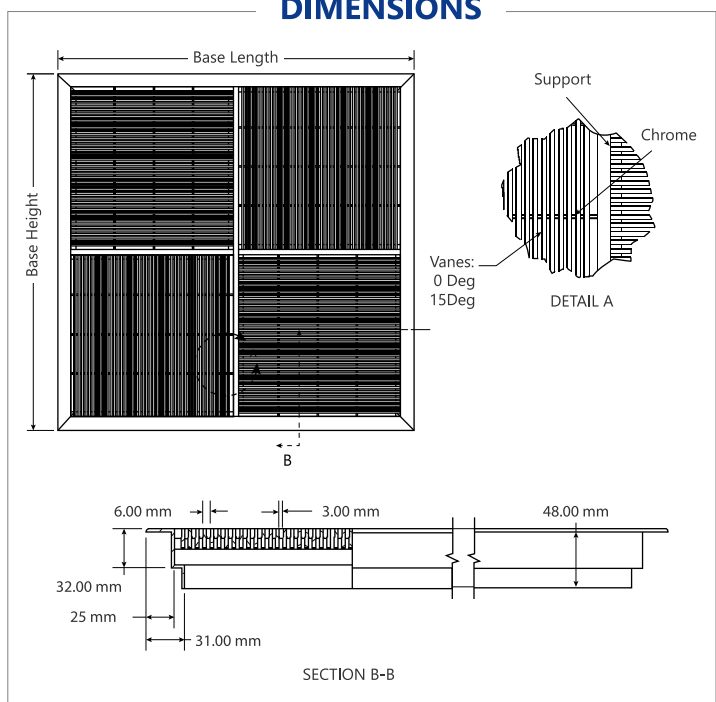
Extruded Heavy Duty Aluminium

### Bracket & Support Construction



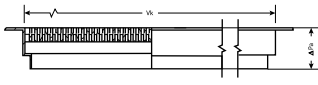
Extruded Heavy Duty Aluminium

## DIMENSIONS



# TECHNICAL PERFORMANCE DATA

## Supply

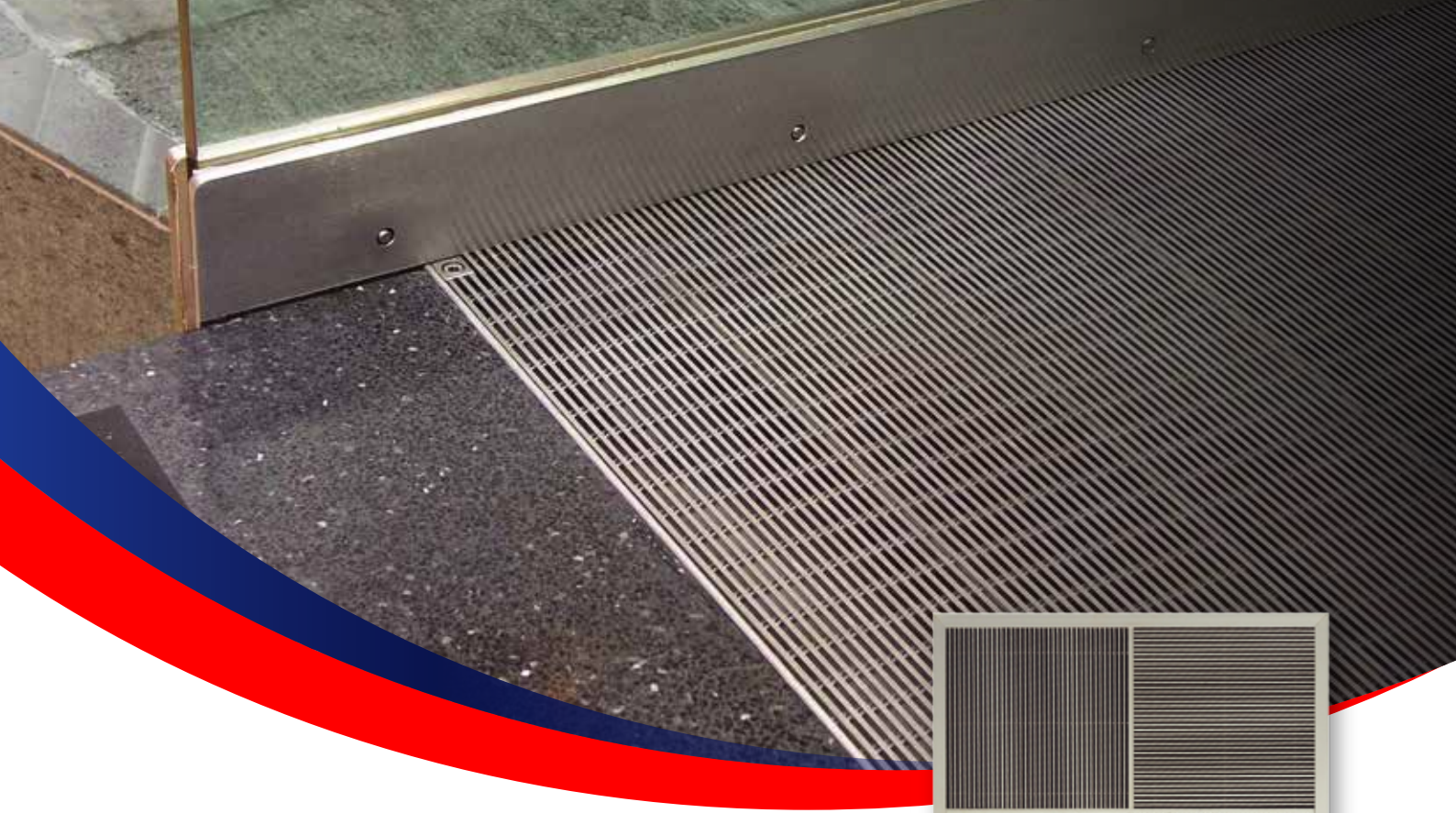


Grille Neck Size, mm	Neck Area (Eff. Area) m <sup>2</sup>	Unit Volume Flowrate, m <sup>3</sup> /hr Unit Volume Flowrate, l/s	NR15		NR25		NR35				
			179 50	357 100	536 150	714 200	1072 300	1428 400	1607 450	1786 500	2144 600
300 x 300	0.09 (0.0335)	Face Velocity, m/s	1.5	3.0	4.5	6.0	-	-	-	-	-
		Total 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

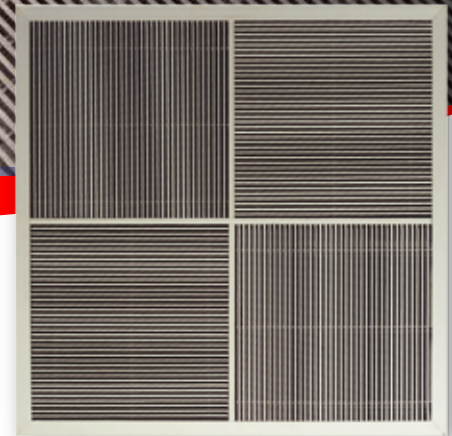
\* The effective area given is to the best estimation & knowledge of Prudentaire's engineers at the point of entry.

Grille Neck Size, mm	Neck Area (Eff. Area) m <sup>2</sup>	Unit Volume Flowrate, m <sup>3</sup> /hr Unit Volume Flowrate, l/s	NR15		NR25		NR35				
			-	2.2 4 <15	3.3 9 16	4.4 15 30	-	-	-	-	-
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








Grille Neck Size, mm	Neck Area (Eff. Area) m <sup>2</sup>	Unit Volume Flowrate, m <sup>3</sup> /hr Unit Volume Flowrate, l/s	NR15		NR25		NR35				
			-	1.7 <4 <15	2.5 5.3 23	3.3 9 29	-	-	-	-	-
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 



**Prudent Aire Sdn Bhd** 514037-D  
Lot 2102, Jalan KPB12, Off Jalan Suria Park 1, Kg Baru Balakong,  
43300 Seri Kembangan, Selangor Darul Ehsan, Malaysia  
Tel : +603-9100 3858 (HL) / 9101 3869 / 9101 5868  
Fax : +603-9100 4868 Email : sales@prudentaire.com

[www.prudentaire.com](http://www.prudentaire.com)