



TAG *Transfer Air Grille*





Introduction

Applicable for air transfer applications between two area, Prudentaire Vision-Proof Transfer Air Grille addresses the combined requirements of air flow, privacy and aesthetics. Tested with reference to ASHRAE Standard 130-2008 in Prudentaire Laboratory, the Transfer air grille offers maximum air flow and minimum static pressure drop with low sound level conditions.

For darkroom applications, back to back 2-grilles configuration in matt black finish could be used for no light penetration conditions. Alternatively, Prudentaire Light-Proof Transfer Air Grille can be used at a reduced grille depth.

With highly customizable blade profiles and pitch distance, Prudentaire Transfer Air Grille is able to meet varying site requirements with appropriate modifications.

CONSTRUCTIONS & MATERIALS

- Average % effective area
- Highly customizable effective area
- Vision proof blade construction
- Blade pitch of 25mm (Customizable upon request)
- Grille sizing :
 - i) Minimum size : 100mm x 100mm
 - ii) Maximum size : 2400mm x 1200mm
 - iii) For Length > 600mm, grille supplied in sections

Frames



Extruded Aluminium



Stainless Steel (Upon request)



Galvanized Steel (Upon request)

Vanes



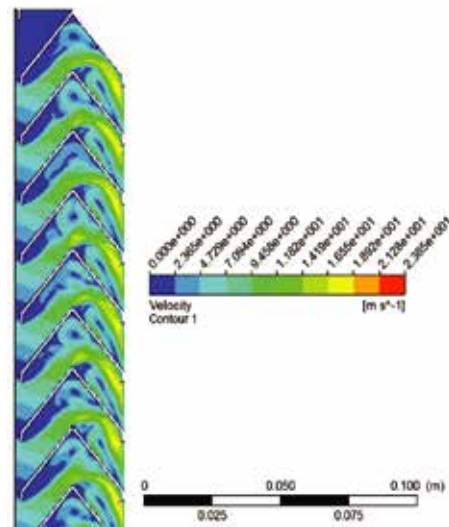
Extruded Aluminium



Stainless Steel (Upon request)



Galvanized Steel (Upon request)

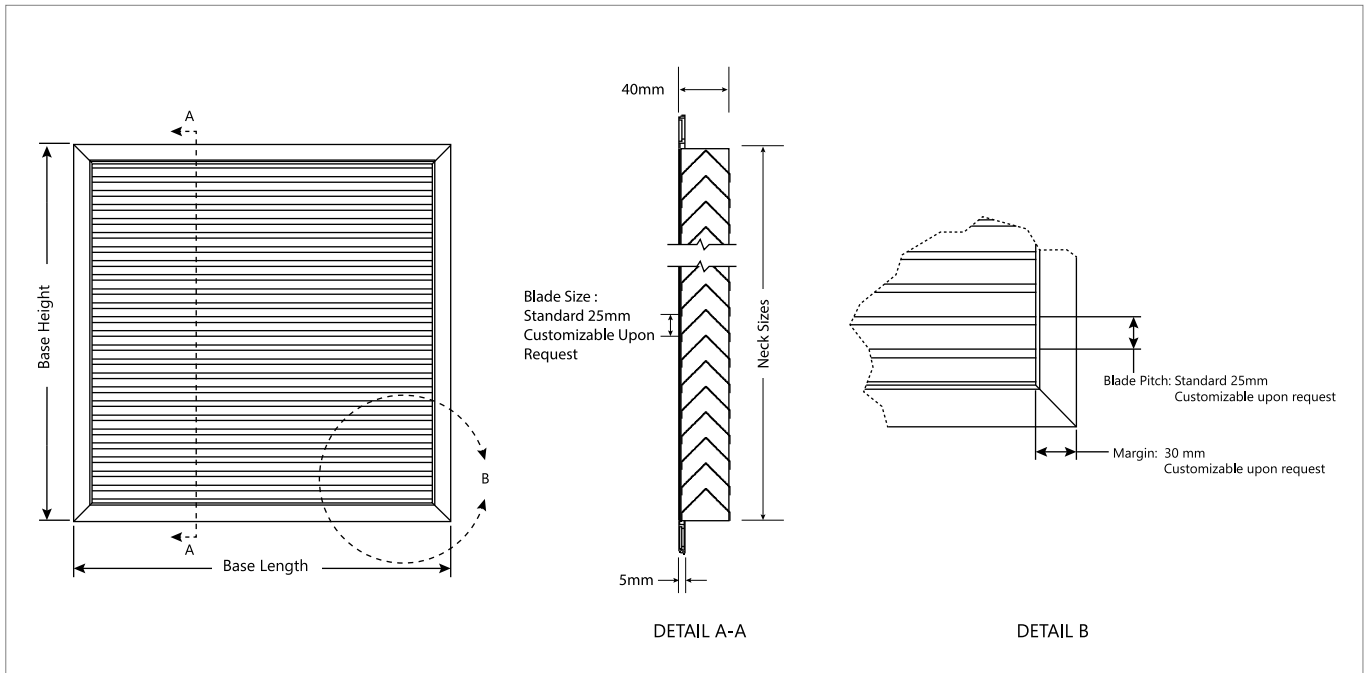


Sight-Proof Configuration



Light-Proof Configuration

DIMENSIONS



Extract



* For darkroom applications (back to back grille configuration), the pressure drop would be double at listed flowrates and NR values.

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





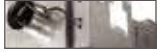


Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25	NR35	NR40	NR50	800	1000	2000	2500	3000	4000
			250 70	400 112	600 168	800 224	1000 280	2000 560	2500 700	3000 840	4000 1120	
100 x 400	0.04 (0.012)	Face Velocity, m/s	5.8	9.3	13.9	-	-	-	-	-	-	-
		Total Pressure Loss, Pa	17	40	90	-	-	-	-	-	-	-
		Noise Rating (NR)	30	46	>50	-	-	-	-	-	-	-
100 x 500	0.05 (0.015)	Face Velocity, m/s	4.6	7.4	11.1	-	-	-	-	-	-	-
		Total Pressure Loss, Pa	10	25	55	-	-	-	-	-	-	-
		Noise Rating (NR)	23	37	53	-	-	-	-	-	-	-

Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	NR25	NR35	NR40	NR50	800	1000	2000	2500	3000	4000
			250 70	400 112	600 168	800 224	1000 280	2000 560	2500 700	3000 840	4000 1120	
150 x 250	0.0375 (0.012)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	5.8 17 30	9.3 40 46	13.9 90 >50	- - -	- - -	- - -	- - -	- - -	- - -	- - -
150 x 300	0.045 (0.015)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	4.6 10 23	7.4 25 37	11.1 55 53	- - -	- - -	- - -	- - -	- - -	- - -	- - -
150 x 400	0.06 (0.020)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	3.5 5.5 <20	5.6 15 30	11.1 55 44	11.1 55 >50	- - -	- - -	- - -	- - -	- - -	- - -
150 x 500	0.075 (0.025)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	2.8 5.0 <20	4.4 9.0 24	6.7 17.5 36	8.9 35 47	11.1 55 >50	- - -	- - -	- - -	- - -	- - -
150 x 600	0.09 (0.029)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	3.8 7.0 <20	5.7 15 31	7.7 27 43	9.6 45 51	- - -	- - -	- - -	- - -	- - -
150 x 800	0.12 (0.041)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	- - -	4.1 7.5 21	5.4 13 33	6.8 18 40	13.6 90 >50	- - -	- - -	- - -	- - -

TAG | *Transfer Aire Grille*



Products Range

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



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