



TAG *Transfer Air Grille*



Introduction

Applicable for air transfer applications between two area, Prudent Aire Vision-Proof Transfer Air Grille addresses the combined requirements of air flow, privacy and aesthetics. Tested with reference to ASHRAE Standard 130-2008 in Prudent Aire Laboratory, Prudent Aire 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, Prudent Aire Light-Proof Transfer Air Grille can be used at a reduced grille depth.

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

CONSTRUCTIONS & MATERIALS

- Standard 55% free area
- Highly customizable free area
- Vision proof blade construction
- Blade pitch of 25mm (Customizable upon request)
- Grille sizing :
 - Minimum size : BS.150mm x 150mm
 - Maximum size : BS.3000mm x 1400mm
 - 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)

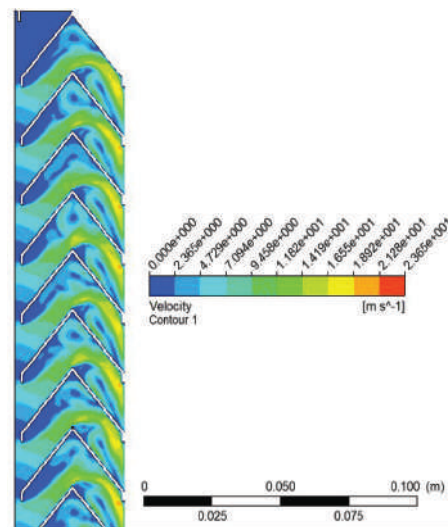
Surface Finishing



White (Matt)
Customizable Color



White (Matt)

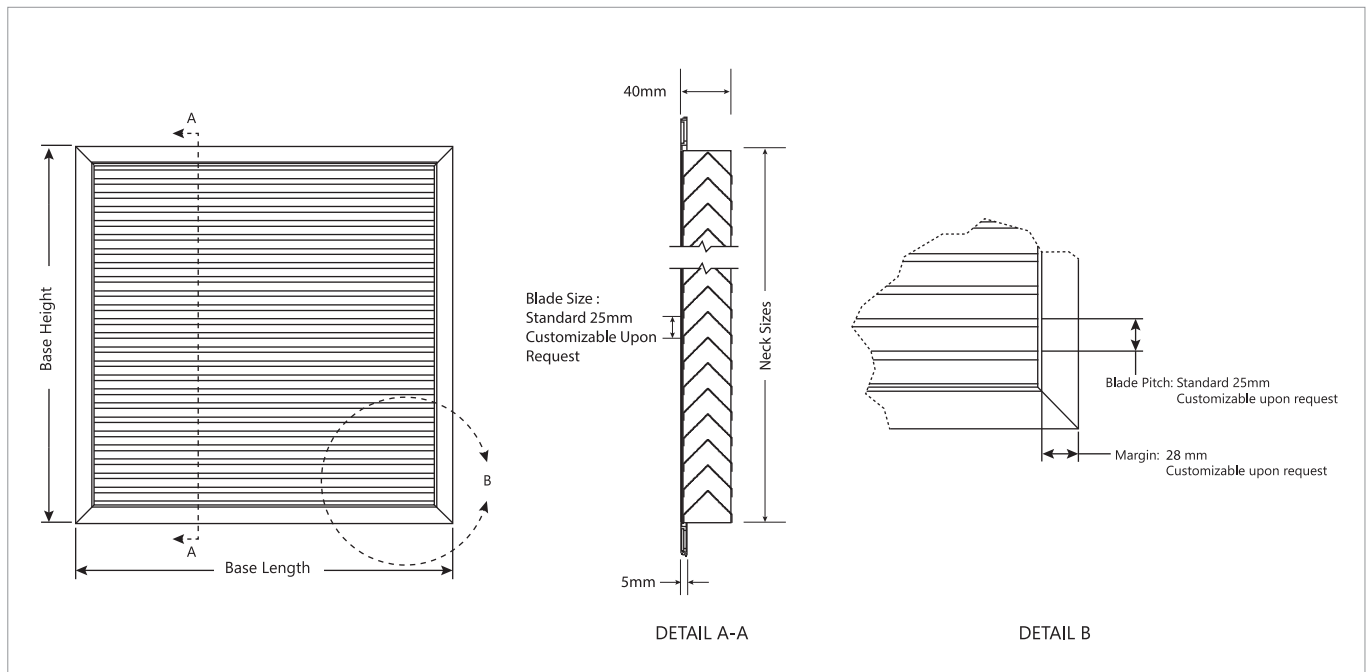


Sight-Proof Configuration



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.

			NR25	NR35	NR40	NR50										
Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	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											
			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 (0.019)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	3.7 5.5 <20		5.9 15 30		8.8 55 44		11.8 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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