

LG *Louvre Grille*





Introduction

Suitable for both wall and ceiling installation, Louvre Grille is designed for return, exhaust and intake applications.

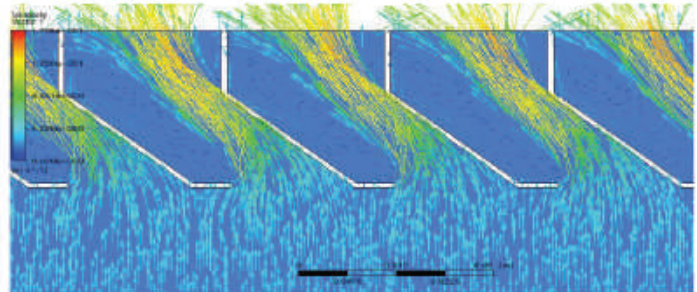
Due to its flexible designs, Louvre Grille is highly customizable when it comes to effective free area. With effective area of 36% for standard issued size, the Louvre Grille is able to provide high aesthetic value without compromising primary product functions significantly.

Come in both fixed and removable configurations, the Louvre Grille is also available in round shape face profile to suit customer's varying site requirements.

Removable Type

CONSTRUCTIONS & MATERIALS

- Standard 36% effective area
- Highly customizable effective area
- Vanes pitch of 25mm (Alu) & 45mm (G.I.)
- Grille sizing:
 - i) Minimum size: 100mm x 100mm
 - ii) Maximum size: 2400mm x 1200mm
 - ii) For Length > 600mm, grille supplied in sections

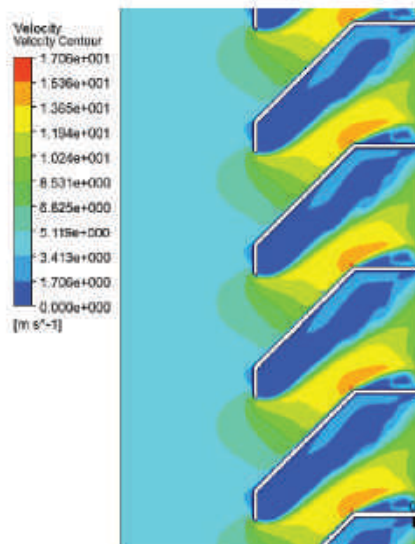


Frames Construction

<div style="border: 1px solid black; padding: 2px; width: 30px; height: 30px; margin: 0 auto;">AL</div> <p>1.1mm</p> <p>Extruded Aluminium</p>	<div style="border: 1px solid black; padding: 2px; width: 30px; height: 30px; margin: 0 auto;">GI</div> <p>0.6mm</p> <p>Galvanized Steel</p>	<div style="border: 1px solid black; padding: 2px; width: 30px; height: 30px; margin: 0 auto;">SS</div> <p>Stainless Steel (Upon request)</p>
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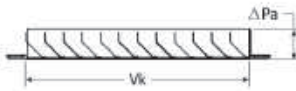
Vaness Construction

<div style="border: 1px solid black; padding: 2px; width: 30px; height: 30px; margin: 0 auto;">AL</div> <p>0.9mm</p> <p>Extruded Aluminium</p>	<div style="border: 1px solid black; padding: 2px; width: 30px; height: 30px; margin: 0 auto;">GI</div> <p>0.6mm</p> <p>Galvanized Steel</p>	<div style="border: 1px solid black; padding: 2px; width: 30px; height: 30px; margin: 0 auto;">SS</div> <p>Stainless Steel (Upon request)</p>
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TECHNICAL PERFORMANCE DATA

Extract



* For supply flow, the effective area will be 20% more.

* For round grille, select according to similar grille neck area.

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

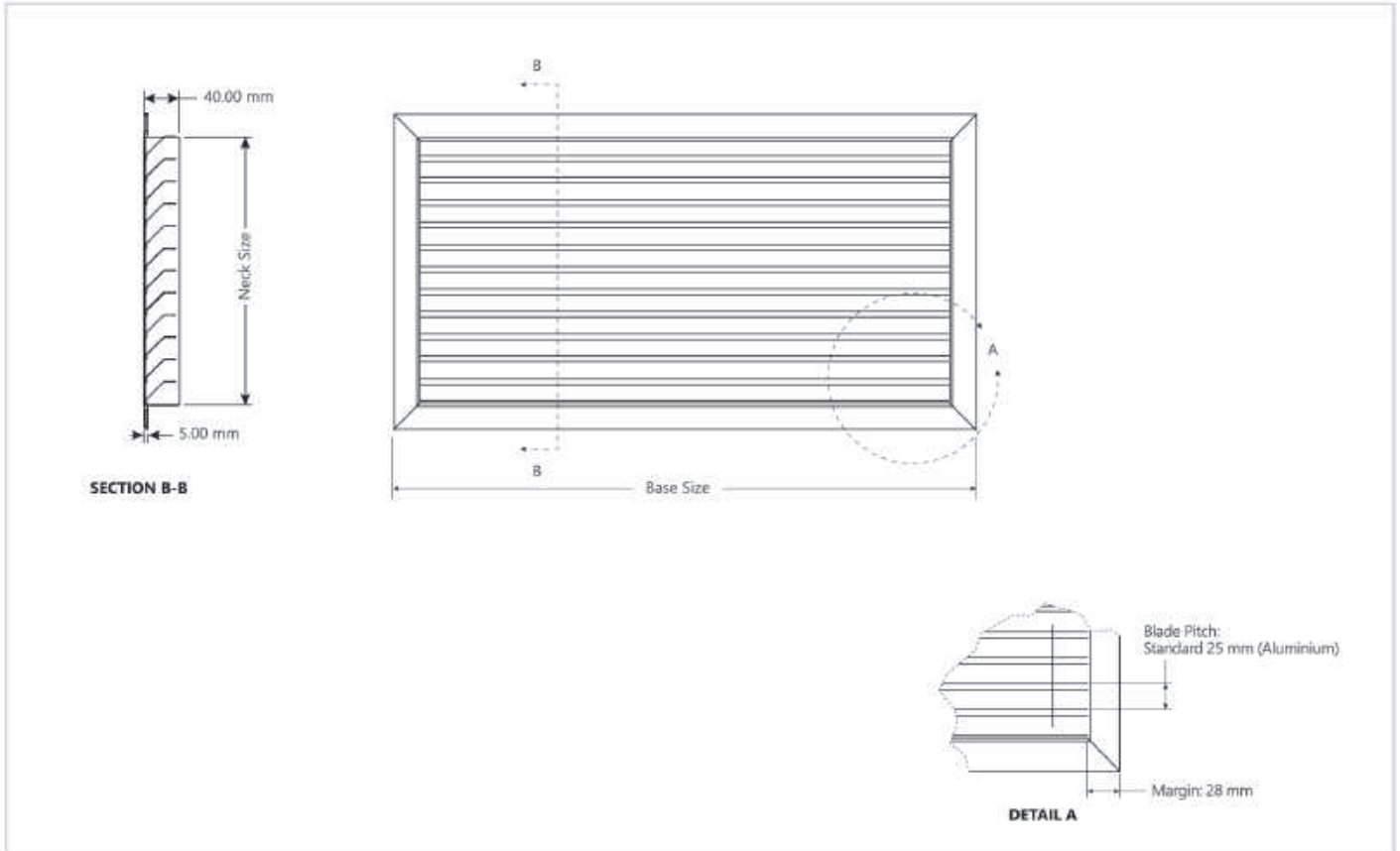
Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Unit Volume Flowrate, m ³ /hr Unit Volume Flowrate, l/s	NR25	NR35	NR40	NR50	800	1000	2000	2500	3000	4000
			250 70	400 112	600 168	800 224	1000 280	2000 560	2500 700	3000 840	4000 1120	
100 x 400	0.04 (0.012)	Face Velocity, m/s Total Pressure Loss, Pa Noise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

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	- - -	- - -	- - -	- - -

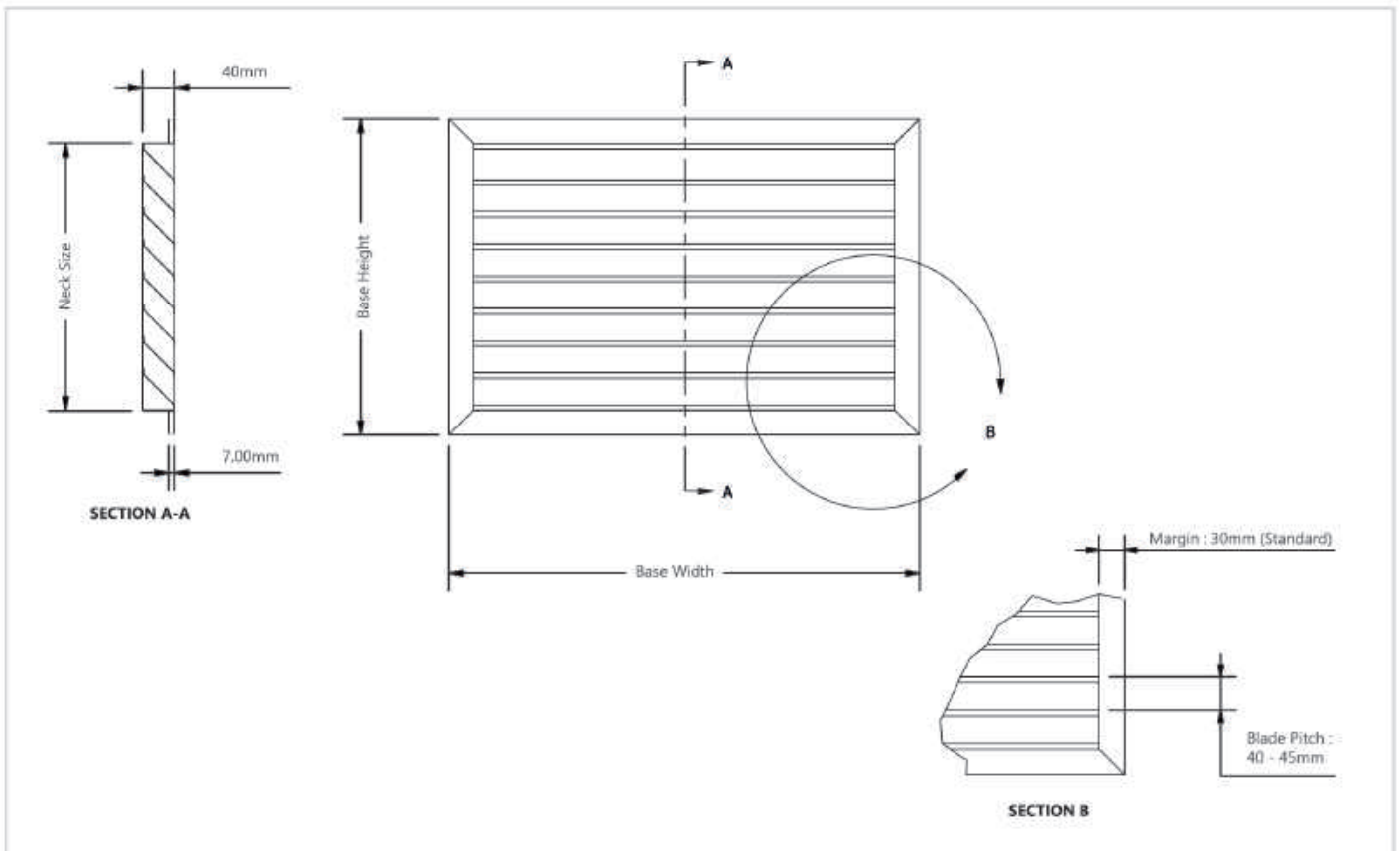
Grille Neck Size, mm	Neck Area (Eff. Area) m ²	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	NR25	NR35	NR40	NR50	800	1000	2000	2500	3000	4000
			250 70	400 112	600 168	800 224	1000 280	2000 560	2500 700	3000 840	4000 1120	
200 x 250	0.05 (0.018)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	3.9 7.0 <20	6.2 17.5 33	9.3 40 46	12.3 70 >50	- - -	- - -	- - -	- - -	- - -	- - -
200 x 300	0.06 (0.022)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	3.2 4.5 <20	5.1 13 26	7.6 26 40	10.1 47 50	12.6 7 >50	- - -	- - -	- - -	- - -	- - -
200 x 400	0.08 (0.029)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	3.8 7.0 <20	5.7 17 32	7.7 27 43	9.6 45 52	- - -	- - -	- - -	- - -	- - -
200 x 500	0.1 (0.035)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	3.2 4.5 <20	4.8 12.5 25	6.3 17.5 37	7.9 30 46	15.9 >80 >50	- - -	- - -	- - -	- - -
200 x 600	0.12 (0.041)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	- - -	4.1 7.5 20	5.4 13 33	6.8 18 40	13.6 90 >50	- - -	- - -	- - -	- - -
200 x 800	0.16 (0.055)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	- - -	3.0 4.0 <20	4.0 7.5 24	5.1 13 33	10.1 47 >50	- - -	- - -	- - -	- - -
200 x 1000	0.2 (0.071)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	- - -	- - -	3.1 4.4 <20	3.9 7.5 24	7.8 27 47	- - -	- - -	- - -	- - -

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	
300 x 300	0.09 (0.033)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	3.4 5.5 <20	5.1 13 27	6.7 20 39	8.4 35 47	16.8 >80 >50	- - -	- - -	- - -	- - -
300 x 400	0.12 (0.044)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	- - -	3.8 7.0 <20	5.1 13 30	6.3 17.5 37	12.6 70 >50	- - -	- - -	- - -	- - -
300 x 500	0.15 (0.055)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	- - -	3.0 4.0 <20	4.0 7.5 24	5.1 13 33	10.1 47 >50	- - -	- - -	- - -	- - -
300 x 600	0.18 (0.065)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	- - -	- - -	3.4 5.5 21	4.2 8.0 27	8.5 35 50	10.7 55 >50	- - -	- - -	- - -
300 x 800	0.24 (0.087)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	- - -	- - -	- - -	3.2 5.0 20	6.4 18 42	8.0 30 50	9.6 45 >50	- - -	- - -
300 x 1000	0.3 (0.110)	Face Velocity, m/s Total Pressure Loss, Pa Noise Rating (NR)	- - -	- - -	- - -	- - -	2.5 <4 <20	5.1 13 34	6.3 17.5 40	7.6 27.5 46	10.1 47 >50	- - -

DIMENSIONS - ALUMINIUM



DIMENSIONS - GALVANIZED STEEL



ALUMINIUM LOUVER GRILLE TECHNICAL SPECIFICATION

Frame Construction

1. Frame to be in extruded aluminium. Frame thickness should be in minimum 1.1mm thick, unless otherwise stated.
2. The frame to be in 28mm from the neck height to the edge.
3. Frame height to be in 40mm.
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.

Vanes Construction

1. Vanes to be in extruded aluminium.
2. Vanes to be in 0.9 mm thick.
3. Vanes pitch to be in 25mm

Finishing

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

Performance

1. Free area of the grille to be in 36%.
2. Vanes angle should be with 45°.
3. Louver Grilles are designed to be installed as wall mounted as an exhaust or return opening.

GALVANIZED STEEL EXTERNAL LOUVER TECHNICAL SPECIFICATION

Frame Construction

1. Frame to be in galvanized steel. Frame thickness should be in minimum 0.6mm thick, unless otherwise stated.
2. The frame to be in 30mm from the neck height to the edge.
3. Frame height to be in 40mm.
4. Removable core designs are available upon request.

Vanes Construction

1. Vanes to be in galvanized steel.
2. Vanes to be in 0.6mm thick, unless otherwise stated.
3. Vanes pitch to be in 40-50mm depends on size.

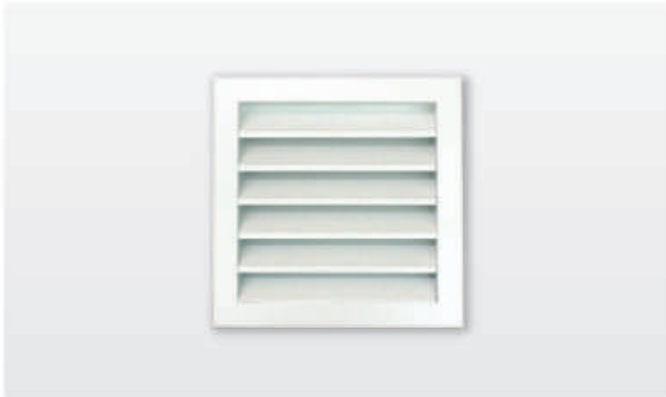
Finishing

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

Performance

1. Free area of the grille to be in 36%.
2. Vanes angle should be with 45°.
3. Louvers Grille are designed to be install as wall mounted as exhaust or return.

AVAILABLE TYPES



Fixed



Double Margin

Removable Type



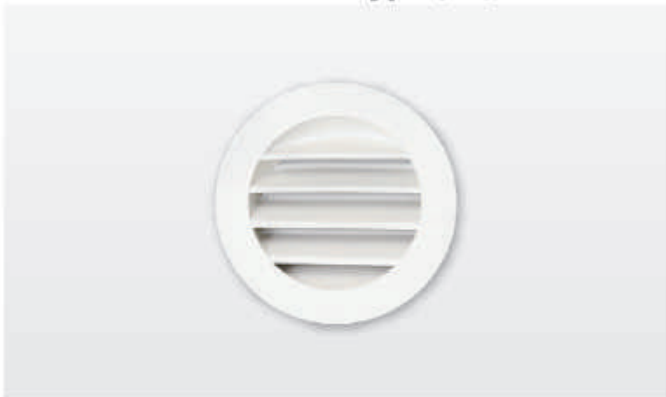
Push & Sit Down

Removable Type (AL)



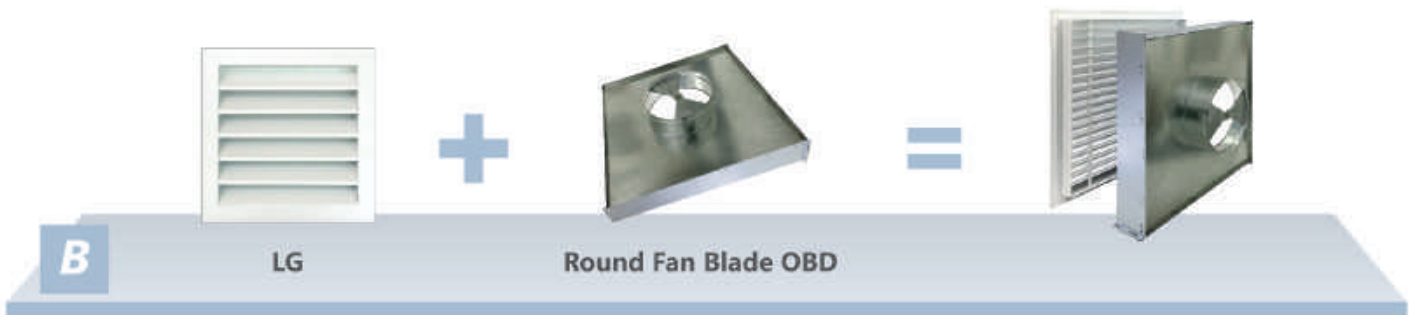
Push & Sit Down

Removable Type (GI)



Round







GRILLE + ACCESSORIES COMBINATION



LG | *Louvre Grille*



Products Range

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



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