



G SERIES GAL.0600 DATA SHEET

Airocle's G Series is an acoustic louvre. Designed to provide the maximum dB reduction possible whilst maintaining an efficient airflow through the louvre.

The G Series GAL.0600 FG50 has a 50mm acoustic media in a chevron configuration that has a patented fireproof sound absorbing facing material providing maximum sound absorption especially at low to medium frequencies.

Computational Fluid Dynamic Analysis was done to obtain credible data on this louvre.

- Depth of Blade = 600mm (2 x 300mm)
- Blade pitch = 130mm
- Approximate Weight = 50kg/m²
- Pressure drop no greater than 10 Pascal at 3m/s
- Available in panel

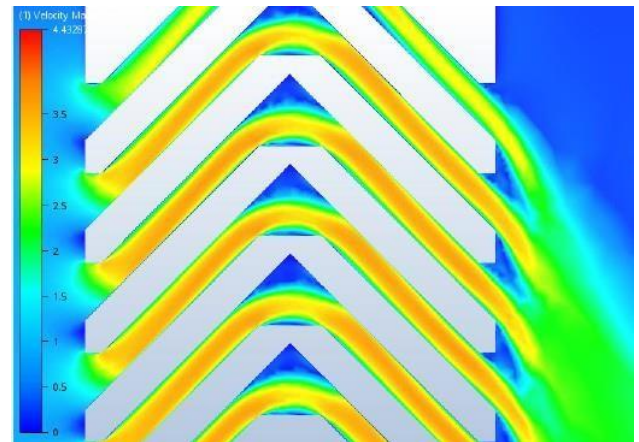


Figure 1: G Series (Chevron Blade) GAL.0600
CFD Testing, Velocity Vector

PERFORMANCE SPECIFICATIONS:

- Free Open Area, FOA = 34.5%
- Coefficient of Discharge, Cd = 0.25
- Effective Aerodynamic Area, EAA = 0.232
- Sound Transmission Class, Rw 32 (Measured according to AS/NZS ISO 717.1:2004 Acoustics - Rating of sound insulation in buildings and of building elements Airborne sound insulation)

PERFORMANCE LEVEL:

According to AS 4740: 2000

(Natural Ventilators– Classification and performance)

- Airflow Performance: Class 1

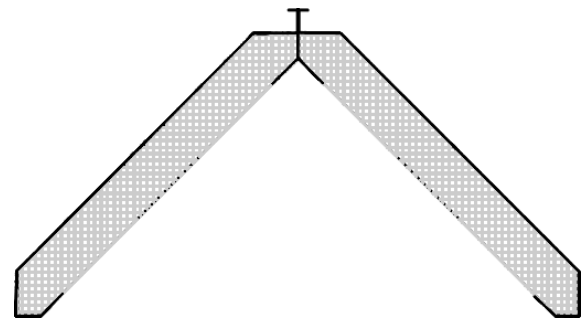


Figure 2: G Series (Chevron Blade) GAL.0600

IMPORTANT NOTES

It is important that the wind velocity through the free open area (FOA) of a louvre is identified. This will then determine the pressure drop of the louvre and will govern the degree of possible water penetration due to rain. No external louvre can carry a guarantee that water penetration will be prevented in all weather conditions involving wind and/or rain. When there is no control over the wind velocity passing through the louvre, the louvres' performance in relation to water penetration cannot be guaranteed. Airocle can assist in selecting a louvre with the right performance class, and understanding the circumstances around the louvre to minimize water ingress. Contact Airocle if you require assistance in choosing the most suitable louvre for your needs.

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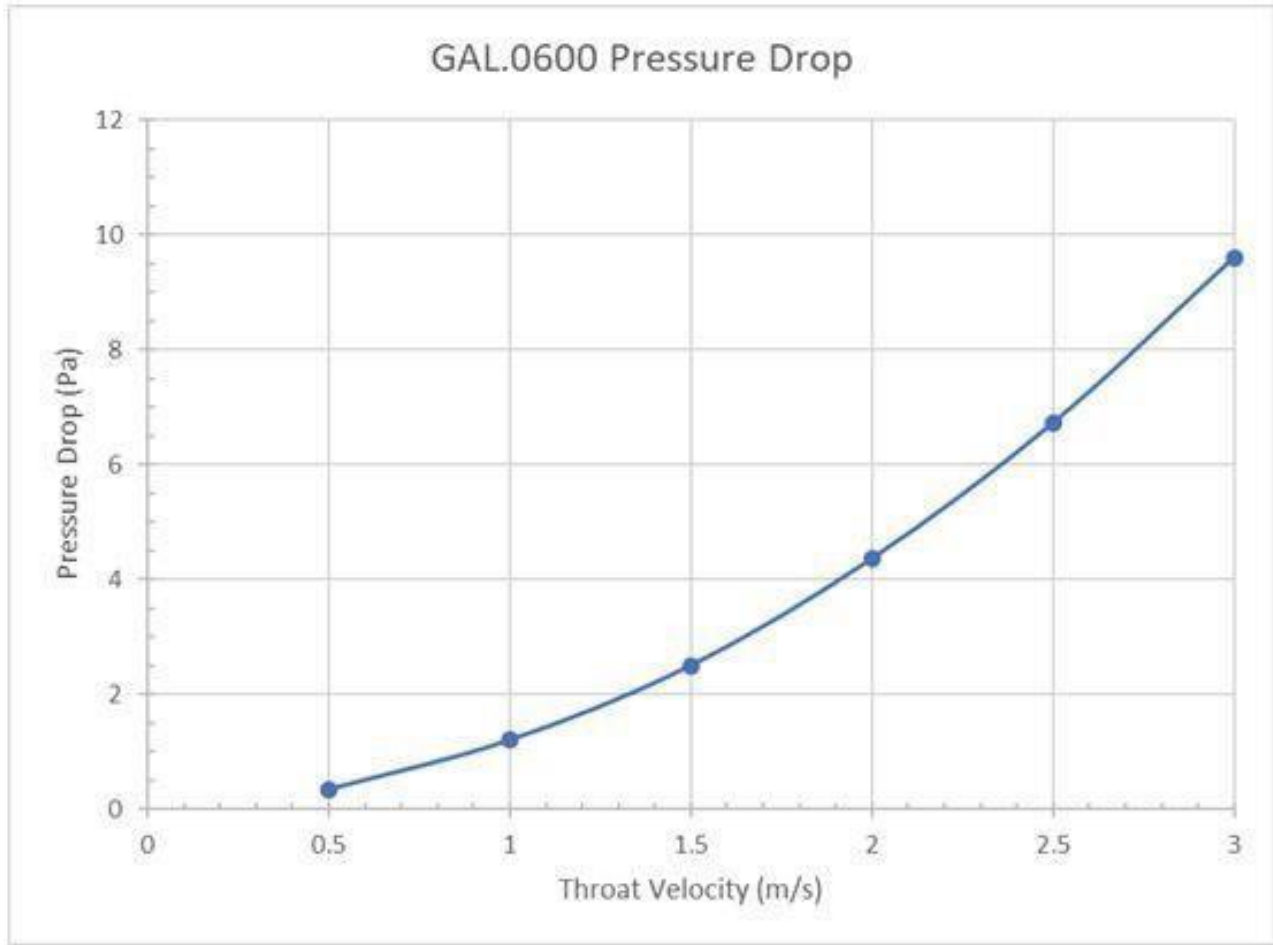


Figure 3: G Series GAL.0600 Louvre Pressure Drop Graph for a 1m H x 1m W Louvre Panel

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Table E1 The sound transmission loss of 600 mm thick two-stage acoustic louvre.			
1/3 rd Octave Centre Frequency Bands f (Hz)	Measured Sound Transmission Loss of Test Sample R (dB)	Measured Transmission Loss Difference between the Filler Wall and the Test Sample (dB)	Sound Transmission Loss Correction of the Test Sample (dB)
100	13.2	29.6	0.0
125	12.4	28.7	0.0
160	13.5	27.5	0.0
200	14.8	26.7	0.0
250	18.9	28.3	0.0
315	22.4	26.8	0.0
400	29.8	23.0	0.0
500	36.6	19.0	0.0
630	39.5	18.4	0.0
800	40.5	20.0	0.0
1000	43.1	19.6	0.0
1250	47.5	17.1	0.0
1600	51.0	12.7	0.2
2000	47.9	8.1	0.7
2500	45.9	11.7	0.3
3150	52.1	10.6	0.4
4000	57.0	7.6	0.8
5000	57.2	10.7	0.4

Figure 4: G Series GAL.0600 Sound Transmission Sound reduction values across 1/3 Octave Band

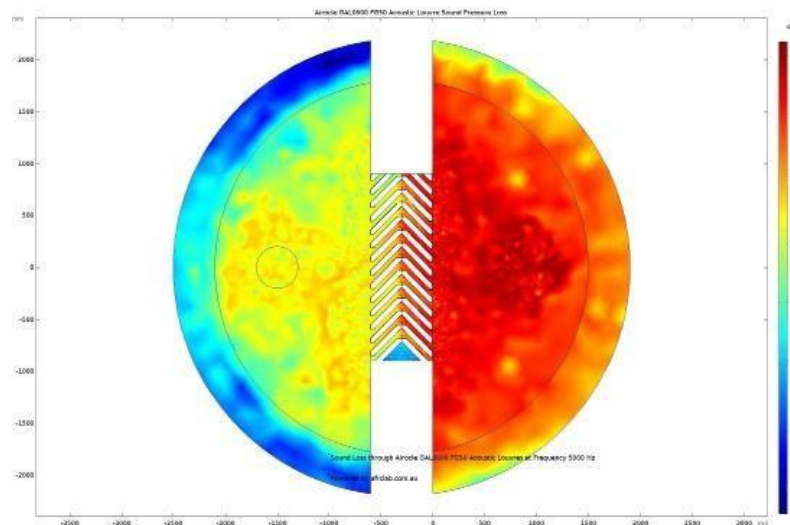


Figure 5: G Series GAL.0600 Louvre Sound Pressure Loss

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