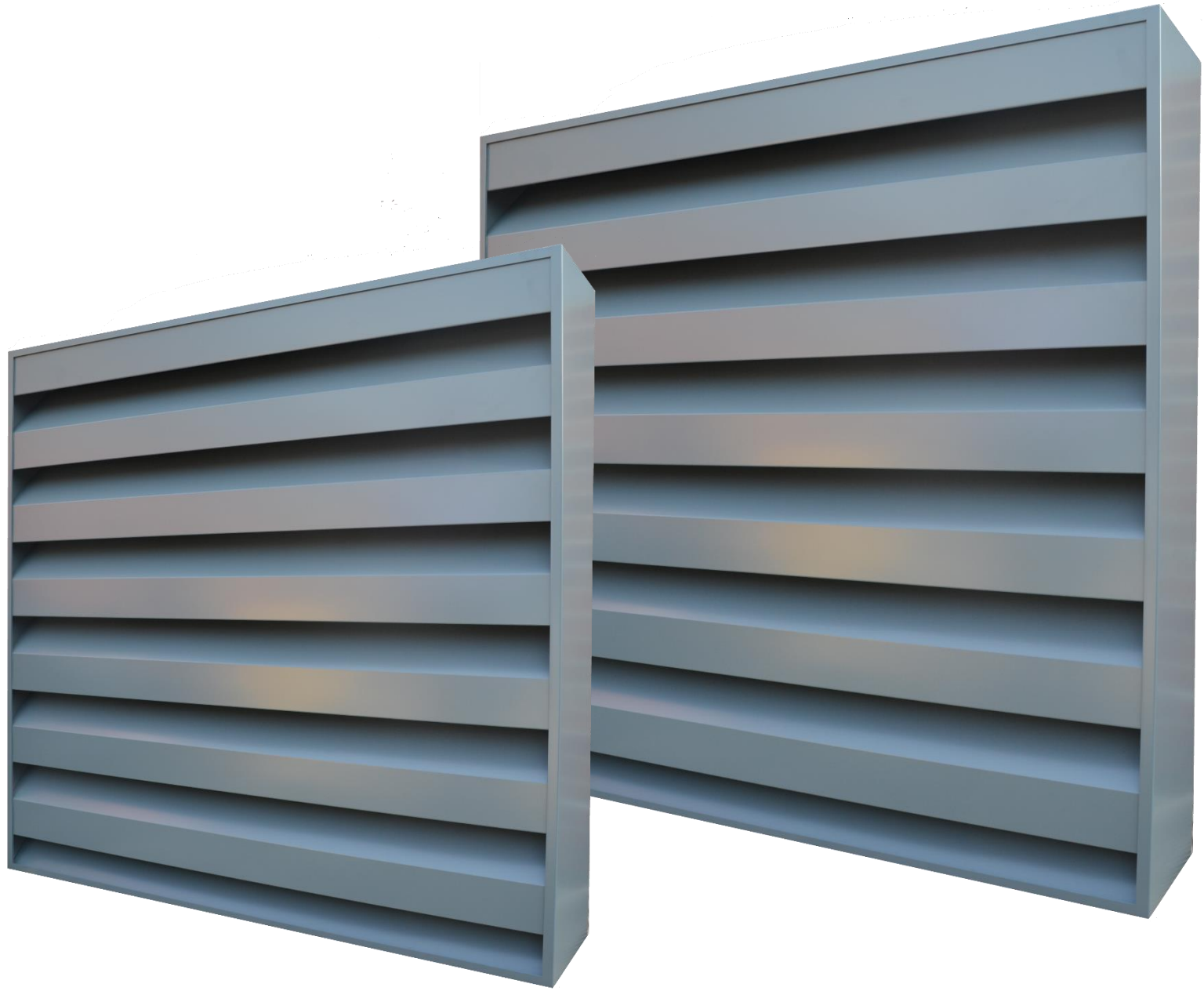
Acoustic Weather Louvres

GDL
AIR SYSTEMS LTD

Acoustic Weather Louvres



Acoustic Weather Louvres

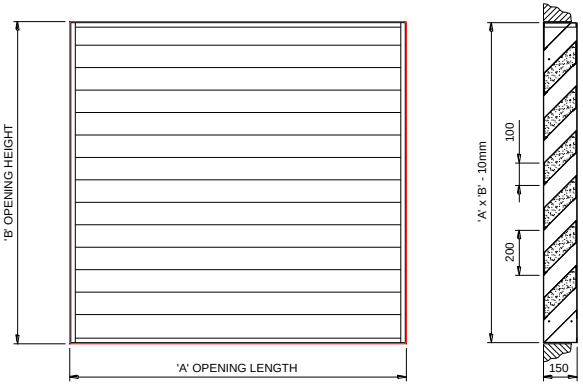
150mm Deep Single Bank

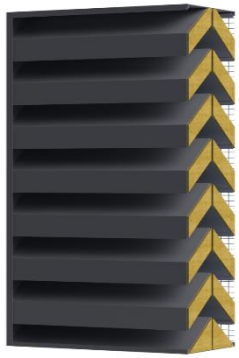
Suitable for applications where depth is critical. For supply or extract air, the Acoustic Louvre is designed to attenuate medium and high frequency noise breakout from ductwork and plant room openings.

Cases and blades formed from Aluminium sheet. The attenuation material is glass wool faced with perforated sheet.

From 400 x 400 to 1200 x 2000 in a single panel, large units are available in multiple units which bolt together in situ.

Single Bank 18kg/m2.
Free area approximately 45%.





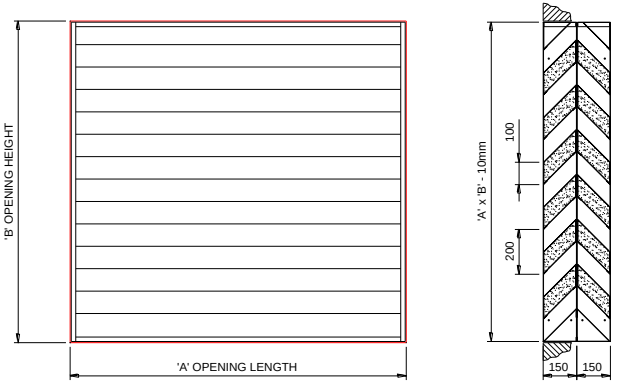
300mm Deep Double Bank Chevron

The 'Chevron' profiled acoustic blades offer higher noise attenuation within a slim frame, the double bank 'Chevron' formation offers the optimum noise attenuation for supply or extract air.

Cases and blades formed from Aluminium sheet. The attenuation material is glass wool faced with perforated sheet.

From 400 x 400 to 1200 x 2000 in a single panel, large units are available in multiple units which bolt together in situ.

Double Bank 36kg/m2.
Free area approximately 45%.



Acoustic Weather Louvres

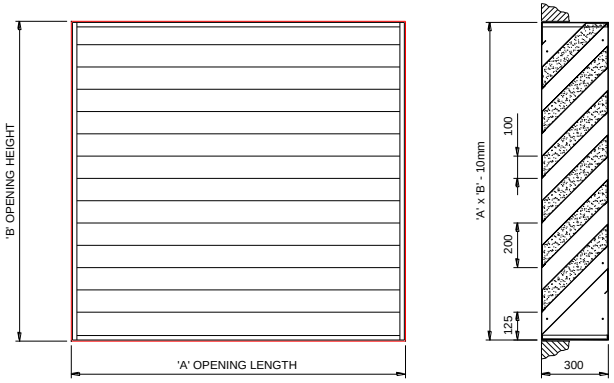
300mm Deep Single Bank

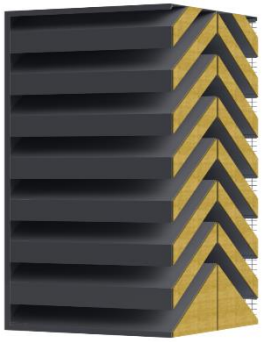
For supply or extract air, the Acoustic Louvre is designed to attenuate medium and high frequency noise breakout from ductwork and plant room openings. Available in single bank or, for higher levels of attenuation, double bank.

Cases and blades formed from Aluminium sheet. The attenuation material is glass wool faced with perforated sheet.

From 650 x 650 to 1200 x 2000 in a single panel, large units are available in multiple units which bolt together in situ.

Single bank 26kg/m2
Free area approximately 40%





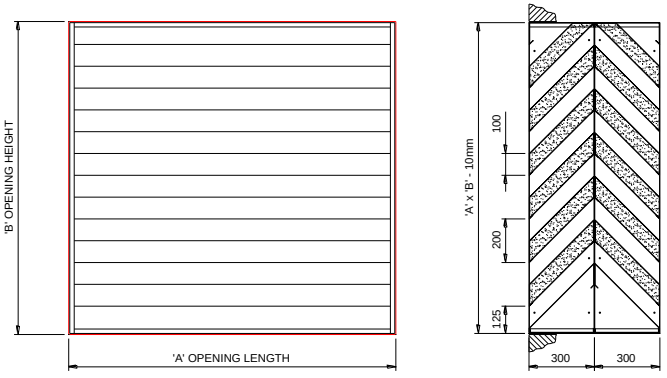
600mm Deep Double Bank Chevron

For supply or extract air. Cases and blades formed from Aluminium sheet. The attenuation material is glass wool faced with perforated sheet.

From 650 x 650 to 1200 x 2000 in a single panel, large units are available in multiple units which bolt together in situ.

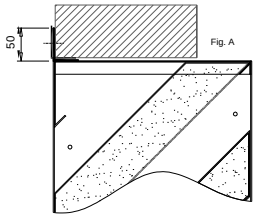
Double bank 52kg/m2
Free area approximately 40%

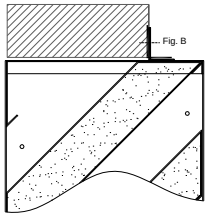
* 3X 150SB (450mm deep) available for special requirements

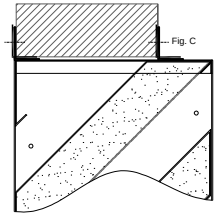


Technical Performance Data & Fixing Options

Acoustic Weather Louvres







The loose flange option can be used either as a fixing method as shown in figures A and B or cosmetically to mask irregularities in the builders work opening, or to perform both functions as depicted in Fig.C. In either event the flange component is finished to match the unit and is furnished undrilled unless otherwise requested. For large sized units the flange is supplied in sections.

To specify use fixing code +1 for the single flange option and code +2 for the double arrangement. The flange gauge is dependent upon the unit size.

	Transmission Loss (Sound Reduction Index)						
Type Hz	**63**	**125**	**250**	**500**	**1K**	**2K**	**4K**
150 Deep Single Bank	2	3	3	8	10	12	13
300 Deep Double Bank	4	4	6	14	18	24	25
300 Deep Single Bank	1	2	4	9	16	19	15
600 Deep Double Bank	4	5	6	18	20	27	31
	Free Field Noise Reduction dB						
Type Hz	**63**	**125**	**250**	**500**	**1K**	**2K**	**4K**
150 Deep Single Bank	8	9	9	14	16	18	19
300 Deep Double Bank	10	10	12	20	24	30	31
300 Deep Single Bank	7	8	10	15	22	25	21
600 Deep Double Bank	10	11	12	24	26	33	37

Transmission loss is the ratio in decibels of the acoustic energy transmitted through the louvre, stated as a function of frequency.

Free field noise reduction is the difference in decibels between the sound pressure level on the noise side and that measured on the opposite side at 1500mm from the louvre.

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*Part of a controlled natural ventilation unit. GDL is a manufacturer of air distribution systems. Intelivent and Intelishade only refers to the control packages available on our natural ventilation and solar shading systems within our renewable energy range. The systems can be purchased from us with or without the controls package.