

ACOUSTIC LOUVER

Construction:

Frame: High quality G.I sheets (Z275g) of thickness 1.2mm as standard.

Blade: Double skin, flat blade design, 0.9mm exterior surface and 0.9mm perforated interior surface, G.I construction.

Insulation: 48kg/m³ density, 50mm thick high-quality rock wool insulation with facing.



Description:

- Airmaster high performance absorptive type Acoustic Louvers attenuate undesirable noise from being transferred into the environment with minimal air-flow restriction.
- Designed to be architecturally appealing in addition to having sturdy construction with maximum acoustic performance and minimal pressure drop.
- Frame is inverted U shaped having 25mm flanges with flat blade design as standard.
- Available in both single and double banks. Louver Depth above 300mm will have double bank construction with chevron blade design.
- Acoustic infill media with superior characteristics of being inorganic, non-combustible, vermin and moisture proof with density of 48kg/m³ is used. It meets the requirement of EN ISO 1182 and ASTM C665.
- Insulation is lined to prevent the ingress of media into the air stream.
- Modular design of Airmaster Acoustic Louvers allows easy site assembly of multiple section.
- For areas that require accessibility, options such as custom-made doors with hinged acoustic louvers or sliding doors with removable/fixed acoustic louvers are available.
- Tested and certified by Intertek Laboratory USA (NVLAP) in accordance with ASTM standard E477-2013 entitled "Standard Method of Testing Duct Liner Materials and Prefabricated Silencers for Acoustical and Airflow Performance".
- Minimum Single section size (W x H): 300mm x 450mm
Maximum Single section size (W x H): 1800mm x 2400mm

Some of the Applications:

- Generator room, Pump room, compressor room and car park ventilation
- Acoustic enclosure for plant room and cooling tower
- Fresh air intake and Exhaust applications

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Standard Finishes:

- Polyester powder coated finish. Color as per clients' choice.
- Kynar & super durable coating
- Natural anodized finish for Aluminium construction.

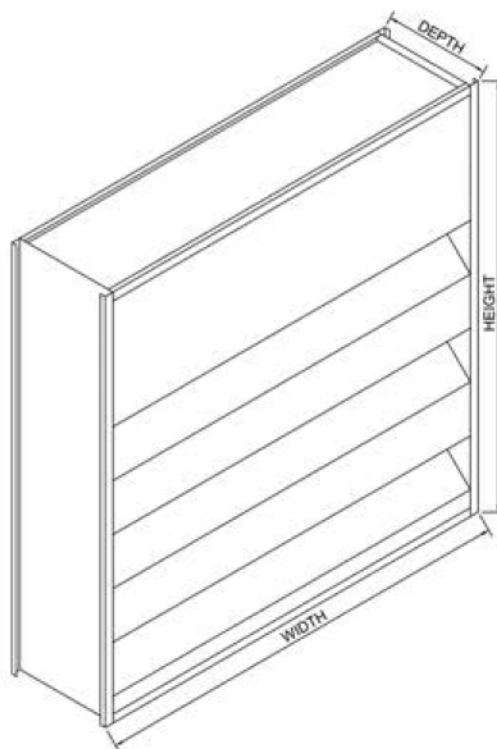
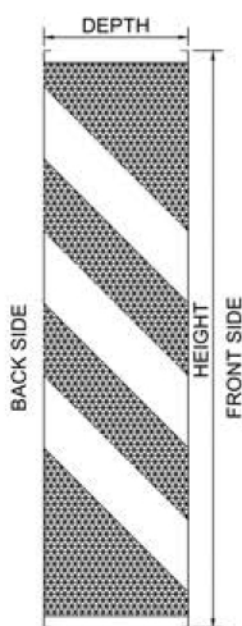
Options:

- Blade and Frame thickness up to 2mm
- Flange width 35mm
- Aluminium construction
- Bird screen:
 - 12 x 12 x 1.5mm dia. aluminium PVC coated wire mesh
 - 12 x 12 x 1mm dia. G.I wire mesh
 - S.S Mesh
- Insect Screen

Note: Please get in touch with our sales representative for custom-made louver design

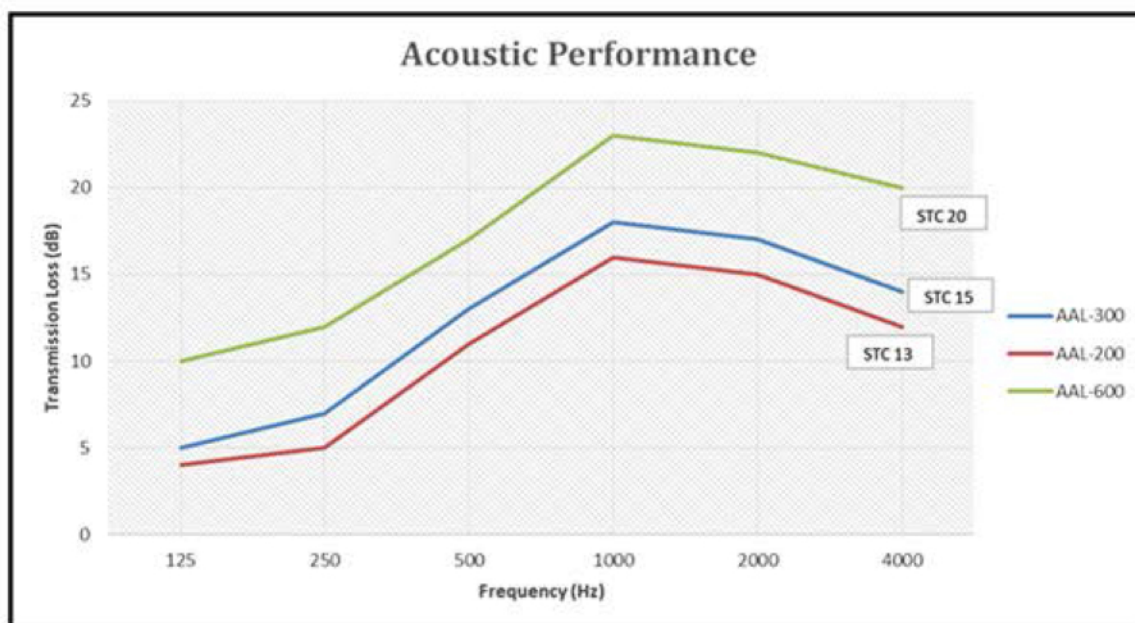
Product Order Checklist:

- Flange - with or without
- Material - Aluminium or GI
- Depth -200 , 300 or 600



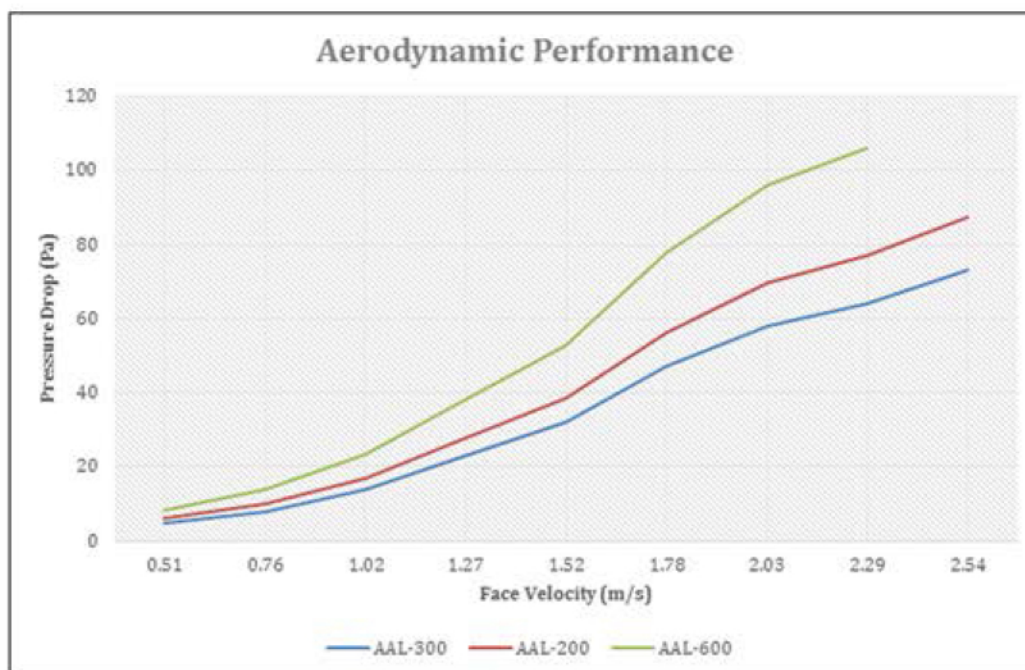
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| Model | Octave band / Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | STC |
|---------|---------------------------------|-----|-----|-----|------|------|------|-----|
| AAL-200 | Transmission Loss TL (dB) | 4 | 5 | 11 | 16 | 15 | 12 | 13 |
| | Free Field noise reduction (dB) | 10 | 11 | 17 | 22 | 21 | 18 | |
| AAL-300 | Transmission Loss TL (dB) | 5 | 7 | 13 | 18 | 17 | 14 | 15 |
| | Free Field noise reduction (dB) | 11 | 13 | 19 | 24 | 23 | 20 | |
| AAL-600 | Transmission Loss TL (dB) | 10 | 12 | 17 | 23 | 22 | 20 | 20 |
| | Free Field noise reduction (dB) | 16 | 18 | 23 | 29 | 28 | 26 | |



| Model | Free area (%) | Face Velocity (m/s) | | | | | | | | |
|---------|---------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| | | 0.5 | 0.8 | 1.0 | 1.3 | 1.5 | 1.8 | 2.0 | 2.3 | 2.5 |
| | | Pressure Drop (Pa) | | | | | | | | |
| AAL-200 | 29 | <7 | 8 | 14 | 23 | 32 | 47 | 58 | 64 | 73 |
| AAL-300 | 29 | <7 | 10 | 17 | 28 | 38 | 56 | 70 | 77 | 88 |
| AAL-600 | 29 | 8 | 14 | 23 | 38 | 53 | 78 | 96 | - | - |

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Performance Notes:

1. Test was performed in ETL laboratories USA in accordance with ASTM E477-2013.
2. Air performance - pressure drop testing was performed in accordance with AMCA standard 500-L-2012
3. The velocity mentioned is face velocity and NOT free area velocity.

Free area vel. = Face area vel. / % free area

Fixing Details:

