

AHL Series

ACOUSTIC LOUVER

MODEL AHL-150

FEATURES

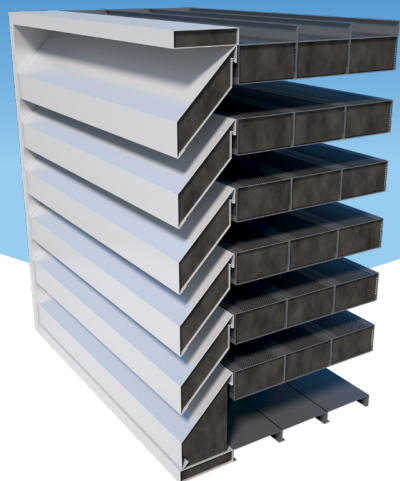
- High Attenuation Performance
- Add-on Acoustic Traps for Increased Performance
- Flat Blade Profile
- Obstructed Line of Sight
- Flangeless Channel Surround

CONSTRUCTION

The AHL-150 louver system is constructed entirely of 6063 T5 extruded aluminium. The acoustic insulation is manufactured from 100% polyester. Rear acoustic traps are supplied in black anodised as standard. All louvers are manufactured to the highest fabrication and performance standards.

OPTIONS

- Powder Coat finishes (Duratec warranty coatings available on request)
- Natural Anodised finish
- Aluminium or Stainless Steel bird mesh
- Add-on Acoustic Traps
- 25mm Flange Cover available



*AHL shown with optional rear acoustic traps



The Holyoake AHL-150 louver offers an attractive louver system that provides ventilation and sound attenuation. Based on proven Holyoake louver technology, the louver has been designed to efficiently allow air to pass through the facade of a building while reducing radiated noise.



The acoustic insulation has been engineered to maximise sound absorption whilst minimising moisture absorption. Even when exposed to an atmosphere of 50°C at 90% relative humidity for four days it showed a moisture absorption by weight of less than 0.03%.



The AHL-150 is able to be ordered with acoustic traps that are fixed to the rear of the louver for additional, improved attenuation performance.



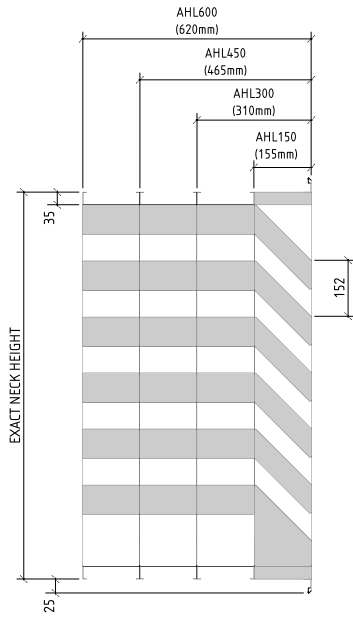
Maximum, recommended velocity of 2.5m/s through the louver.

TYPICAL APPLICATIONS

High performance acoustic louvers have proven to be a very effective sound barrier in high density locations. They are suitable for applications where noise can be disruptive or irritating to patrons, businesses, and families. Utilising the AHL-150 can assist in creating spaces, such as dining and recreational areas, which would typically be unusable due to the high noise level.



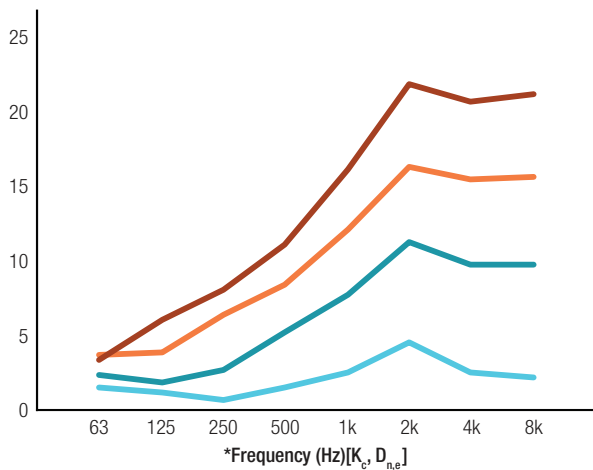
DIMENSIONAL DATA



ACOUSTIC DATA

Test specimen name	STC
AHL150	15
AHL300 (AHL150 + 1 acoustic trap)	21
AHL450 (AHL150 + 2 acoustic traps)	22
AHL600 (AHL150 + 3 acoustic traps)	24

INSERTION LOSS_{STATIC} (dB)



- AHL150
- AHL300 (AHL150 + 1 acoustic trap)
- AHL450 (AHL150 + 2 acoustic traps)
- AHL600 (AHL150 + 3 acoustic traps)

*The single octave data has been calculated from measured third octave data.

*The Insertion Loss [L_{static}] has been measured from data using the ISO 15186-1 method.

*8kHz data extrapolated from 6.3kHz data.

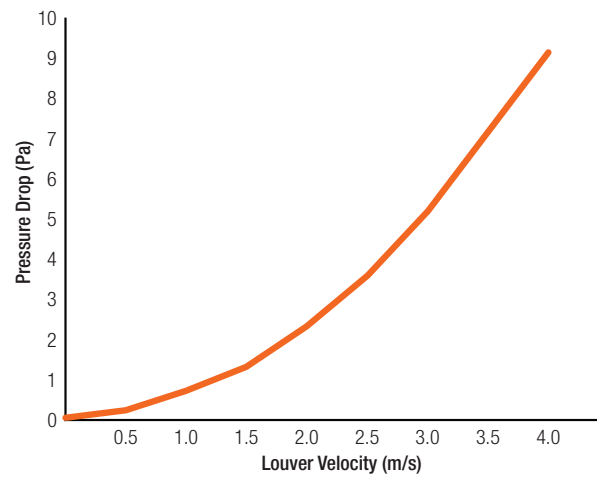
*Testing undertaken by Canterbury Acoustic Testing Services Ltd with independent peer review being completed by Price Research Center North (PRCN).

TESTING STANDARDS

The insulation has been tested and is compliant with:
 ISO 9705 receiving a Group 1-S Classification with a Smoke Production Rate of less than 5m²/s as required by the NZBC C/VM2; and,
 AS 1530.3:

Ignitability Index	0
Heat Evolved Index	0
Spread of Flame Index	0
Smoke Developed Index	2

PERFORMANCE DATA



TRANSMISSION LOSS (dB)

