

TYPICAL SECTION

ALD900



VENTILATION + NOISE CONTROL

LOUVRE FREE AIR: 45% MINIMUM

PRODUCT DESCRIPTION

ADA Louvre Systems' ALD900 offers the maximum attenuation within the standard range, using a deep double-blade configuration for demanding acoustic criteria. Using aluminium blades with acoustic insulation infill and internal perforated liners, the system attenuates mechanical plant noise while maintaining efficient airflow. Independent testing demonstrates Class 1 aerodynamic performance (AS/NZS 4740:2025, CFD) and Rw 13 (STC 13) acoustic performance for the tested configuration (AS 1191:2002 / AS/NZS ISO 717-1:2004).

MATERIAL

FRAME & BLADES (Select Material): 6063-T5 aluminium, Bluescope Galvabond®, 304 stainless steel, or 316 stainless steel.
CORE CONSTRUCTION: Internal semi-rigid acoustic insulation (~32 kg/m³ density); internal perforated acoustic liner.
OPTIONAL: Aluminium or stainless steel bird/vermin mesh; fixings to suit substrate.

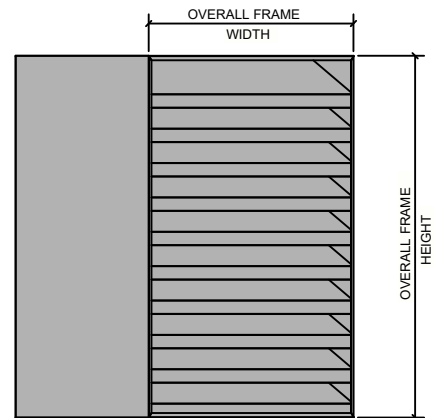
FINISH

Aluminium: Mill finish, natural anodised, coloured anodised, or powder coated.
Bluescope Galvabond®: Mill finish or powder coated.
304 / 316 Stainless Steel: Mill finish.

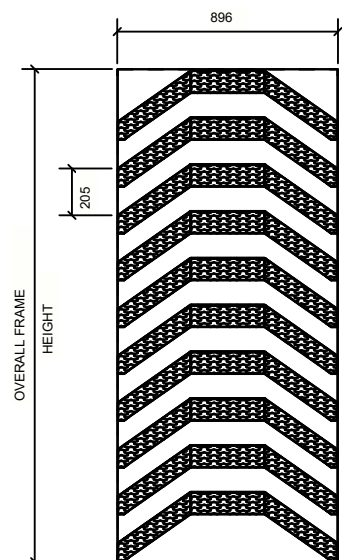
INSTALLATION

Factory-assembled louvre modules are installed into wall openings or plant screens and fixed through the perimeter frame to the supporting structure. Modules can be ganged for large openings. Flashings and mullions are supplied to suit.

DESIGN & DIMENSIONS



ALD-900 LOUVRE FRAME



SIDE VIEW



TYPICAL SECTION

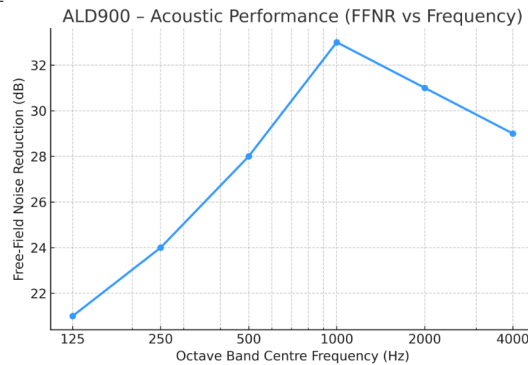
ALD900

TESTING

ACOUSTIC PERFORMANCE

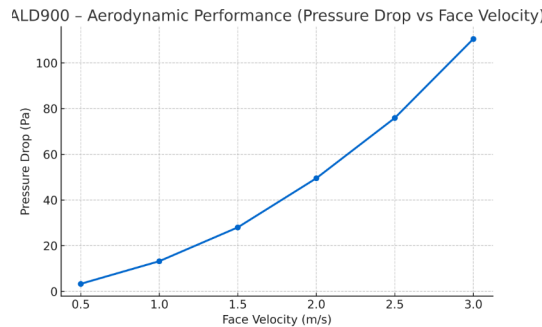
Measured at Octave Band Centre Frequencies

Metric	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Free-Field Noise Reduction (dB)	21.0	24.0	28.0	33.0	31.0	29.0
Transmission Loss (dB)	15.0	18.0	22.0	27.0	25.0	23.0



AERODYNAMIC PERFORMANCE

Face Velocity (m/s)	0.5	1.0	1.5	2.0	2.5	3.0
Pressure Drop (Pa)	3.3	13.2	28.1	49.5	75.9	110.6



COMPLIANCE

Acoustic: Tested to AS 1191:2002 and rated to AS/NZS ISO 717-1:2004 – R_w (C;Ctr) = 13 (0; -1) dB; STC 13 (tested 300 mm configuration).

Aerodynamic: Tested to AS/NZS 4740:2025 Appendix D; Class 1 with FOA 45 %, Cd 0.71, EFA 0.32 (tested configuration).

Fire: Acoustic insulation infill non-combustible (AS 1530.1); AS/NZS 1530.3 indices: Ignitability 0, Spread of Flame 0, Heat Evolved 0, Smoke Developed 1 (2 for facing).

PLEASE NOTE: Project-specific selections and accessories (mesh, guards, rear traps) affect both acoustic and airflow performance.

ADA Louvres are completely Australian owned and made. We work to your specific needs with customisable sizing, finishes, and configurations to fit seamlessly into your business. For more information and a free quote please contact us at