

Airocle™

Think Natural.™
Think Smarter.



Louvres

ACOUSTIC LOUVRES TO SUIT ALL BUILDING TYPES



Wall

G SERIES


VENTS & VENTILATORS

ACOUSTIC LOUVRES

Acoustic Louvres

Wall Solutions

 Passive Natural Ventilation

 Engineered Design

 Market Leading Performance

 Ideal For Sustainable Building Design

G SERIES



We supply a complete range of fixed louvre systems to match all building types and applications.

Optimise the natural airflow and overall performance of your building early in your design by making sure you consider the following aspects:

- airflow volume and optimum efficiency
- the required amount of natural lighting
- restriction of water entry
- aesthetics and architectural style
- seasonal climate changes
- security
- acoustic noise reduction
- structural requirements

Design by Nature

Acoustic Louvres comfortably and reliably manage medium heat loads even in demanding environments. Our fixed louvres optimise building airflow naturally in a wide range of projects including:

- Warehousing and Storage
- Industrial and Manufacturing
- Schools and Education Buildings
- Halls, Gymnasiums and Indoor Pools
- Defence and Government Buildings
- Electricity Substations and Water Pump Houses
- Chemical and Corrosive Environments
- Buildings subject to Cyclone Conditions

How We Help You

Outperform Naturally

A coefficient of discharge of 0.89 sees our **Acoustic Louvres** with the highest airflow performance in its class. A higher coefficient of discharge means that you require less ventilators for the same performance of others on the market, giving your project both design and commercial advantages.

Weather the Elements

Tested to and exceeding AS2428.1 (Rain) and AS2428.2 (Wind), we give you the confidence of your project remaining well ventilated and comfortable even in extreme weather. Our unique guide vane system with the option of operable dampers ensures optimal operation and performance in all conditions.

Reduce Costs Sustainably

We take the best from science and nature so that you can reduce construction and operating costs in your building design. Eliminate the need for electrical wiring and running costs normally associated with mechanical ventilation by harnessing natural ventilation and **Acoustic Louvres** to improve your environmental and economic credentials.

Be Light As A Feather

Already lighter and requiring less structural steel than many mechanical ventilation systems, **Acoustic Louvres** and natural ventilators, with their known coefficient of discharge, also allow designers to make large cost savings by reducing the structural steel required to manage the relief of building pressure.

We Work With You

As a design-led company, we offer free natural ventilation and passive smoke hazard management design advice for architects, engineers, builders and end-users. With dedicated engineering specification support for complex or demanding projects, our capabilities extend to workshop design drawings that champion innovative and socially aware built environments.

Breathe Easy With Our Quality Guarantee

We give you access to not only the best products on the market, but over 45 years of experience and expertise. With CSIRO testing, fully engineered designs, high quality Australian materials and in-house manufacturing facilities, we make it easy for you to take your building design to the next level.

Quality



RAIN
AS2428.1



WIND
AS2428.2



FIRE
AS2428.4



**COEFFICIENT
OF DISCHARGE**
AS2428.5

Using Airocle gives you access to not just the best products on the market, but over 45 years of experience and expertise and the assurance that your building will benefit from fully engineered designs that are manufactured with high quality Australian materials. Our focus on rigorous product development and engineering ensures consistent performance.

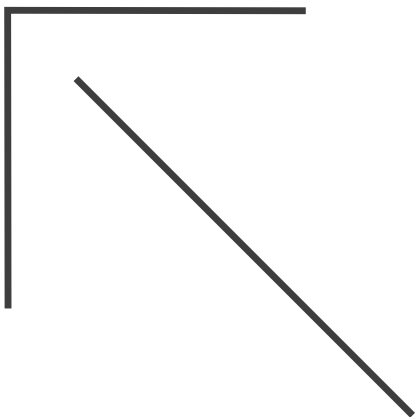


Airocle Fixed Louvres

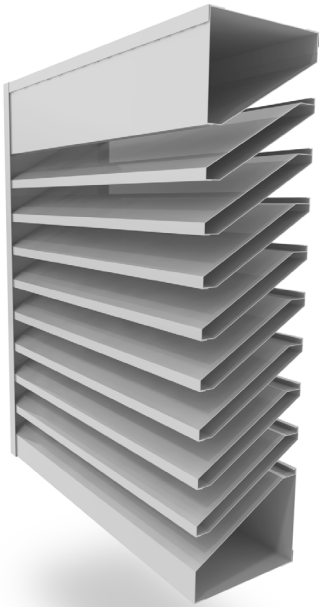
We have designed and fabricated our Acoustic Louvres to deliver reliable ventilation for medium heat loads in even the most challenging environments.



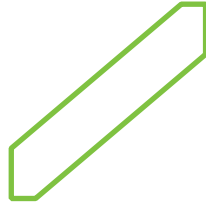
- WAREHOUSING + STORAGE
- INDUSTRIAL WORKSHOPS
- SCHOOLS + EDUCATION FACILITIES
- HALLS, GYMNASIUMS + INDOOR POOLS
- DEFENCE + GOVERNMENT BUILDINGS
- ELECTRICITY SUBSTATIONS + WATER PUMP HOUSES



G



SERIES ACOUSTIC LOUVRE DESIGN



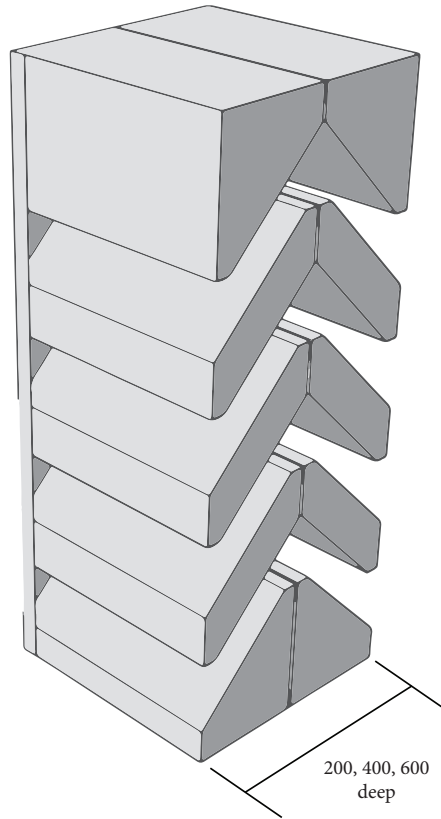
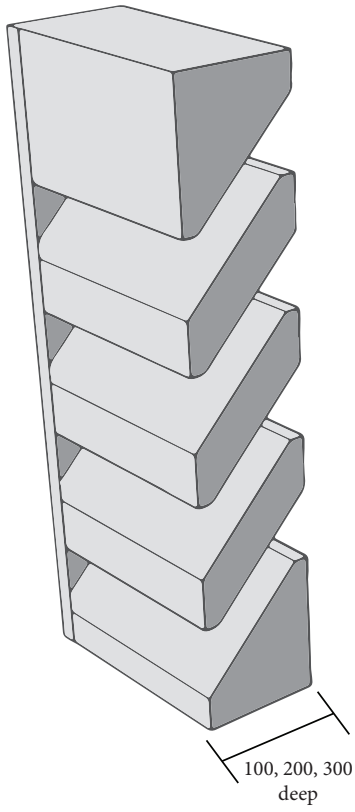
The G Series balances optimal performance with weather protection by minimising the risk of back drafting, and the entry of moisture, through its lipped design.

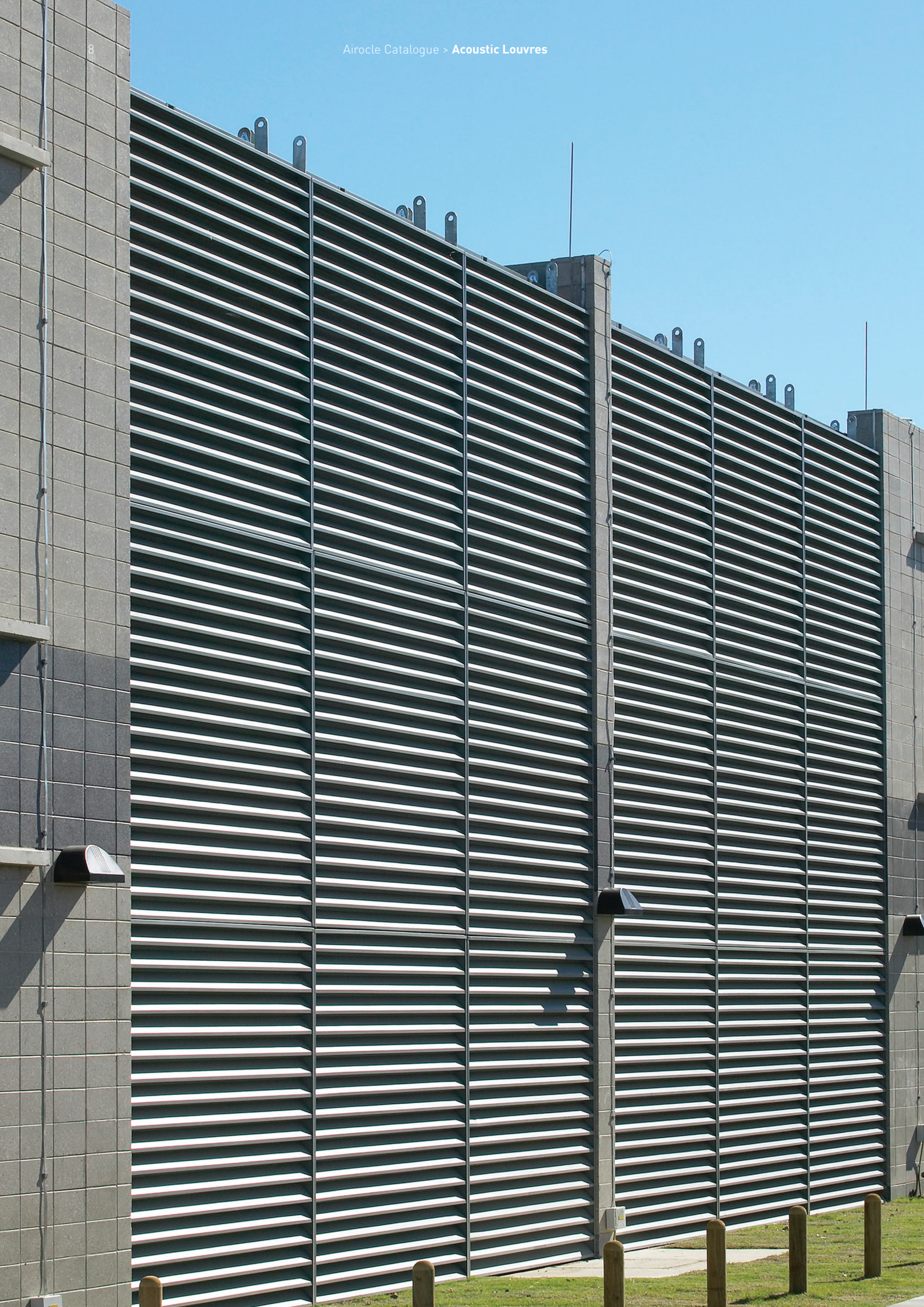
Precision sheet metal construction provides efficient ventilation for buildings and structures.

- Maximum blade span: 1500mm
- 26.5% free open area – GAL.0100
- 42.5% free open area – GAL.0200
- 34.5% free open area – GAL.0300
- 42.5% free open area – GAL.0400
- 34.5% free open area – GAL.0600
- Available in Colorbond steel and aluminium
- Manufactured in Australia

Operable options available on request.

Want to know more? Ask us for an **G Series** Data Sheet or ask our design team for advice on the best ideas for your project.





Materials & Finishing

Airocle Louvres are available in extruded aluminium or fabricated profiles in a selection of base materials:

- Zinalume®
- Colorbond®
- Galvabond®
- Aluminium
- Stainless Steel
- Copper

Our manufacturing process also allows us to colour match custom colours as well as provide all Colorbond, Colorbond Metallic and Dulux colour finishes.

Shipping

Louvres are available in completely assembled units ready for installation.

Additional

We can create adjust the design to suit your needs. We offer operable louvres on request and have the ability to turn our G Series into louvre doors. Please contact our sales team to speak to them about these options.

How to Specify

Description

Louvre(s) shall be of fixed louvre blade arrangement design. Design shall include all applicable dampers. Fixings, trims, flashings and other specified fittings. Install to manufacturers recommendations.

Performance

Roof ventilator is to be tested to:

			
RAIN AS2428.1	WIND AS2428.2	FIRE AS2428.4	COEFFICIENT OF DISCHARGE AS2428.5

Louvres shall have a Coefficient of Discharge of \geq _____ to ensure engineered ventilation design requirements for the space are met.

Size

Louvre(s) to be _____ mm x _____ mm finish size, or hard opening size, based on performance requirements as above.

Proprietary Item

G Series Model GAL. _____ as manufactured by Airocle (airocle.com.au)

Features

Ventilator shall incorporate:

- Bird Mesh with ≤ 11.2 mm aperture and $\geq 77\%$ FOA
- Insect Mesh with ≤ 6.8 mm aperture and $\geq 67\%$ FOA
- Bushfire Mesh with ≤ 2 mm aperture and $\geq 61\%$ FOA
- Manual Operable Blades
- Electric Operable Blades with spring return open/close 240v/24v actuator
- Acoustic Treatment to ensure a minimum Sound Transmission Class (STC) Rating of 13
- Weather sensors and control to enable manual/automatic operations as per system design
- Airflow sensors and control to enable manual/automatic operations as per system design

Fabrication and Finish

Louvres to be constructed in Zinalume®/Colorbond®/Aluminium/Stainless Steel/Copper with Colour to match adjacent roof sheeting unless specified. Refer to External Finishes Schedule.

Inlet/Makeup Air

Due to the need for makeup air, adequate inlets are essential for any ventilation system to operate effectively. While it is recommended an inlet ratio of 1.5 : 1 (inlet : discharge) exist, Airocle can assist in designing or developing a ventilation scheme to suit custom circumstances.

Disclaimer

The information contained in this work has been provided with every effort having been made to ensure accuracy and completeness. However, many of the statements contained in the catalogue are of a general nature and no guarantee is given, nor responsibility taken by Airocle for errors or omissions and Airocle does not accept responsibility in respect of any information or advice given in relation to or as a consequence of anything contained herein. Purchasers should seek their own independent advice as to the suitability of the products and materials contained in the catalogue for their particular circumstances. As Airocle are committed to ongoing product development, all dimensions, designs, specifications, descriptions, text results and exhaust capacities represented in this catalogue are subject to change without prior written notice.



Australian owned, Airocle provides customers with a comprehensive and balanced portfolio of innovative natural ventilation solutions for sustainable commercial, industrial and community building design.

Think Natural. Think Smarter.

To find out more visit our website
Airocle.com.au or call **1800 805 062.**



KNOWLEDGE BANK
INSPIRE + EDUCATE

The Airocle Knowledge Bank is an online resource centre designed to inspire and educate you and your clients on the benefits of natural ventilation. To find out more visit [Airocle.com.au](https://www.airocle.com.au)



AUSTRALIAN
OWNED + MADE

IVR GROUP TRADING AS AIROCLE