



ARCADIA HUSH[®]
ACOUSTIC LOUVRE SYSTEM

 **ARCADIA[®]**
Ventilation and Sunscreen Specialists



HUSH® ACOUSTIC LOUVRE SYSTEM

ARCADIA®

Arcadia® is one of Australia's leading manufacturers and suppliers of natural ventilation, louvre and sun shading systems. Arcadia® products control the natural elements of the sun, wind and light to create energy effective and comfortable conditions in industrial and commercial buildings.

The successful integration of Arcadia® products by architects and designers is supported by the experienced management and engineering team at Arcadia.

If you would like to find out more about the range of products at Arcadia, please visit www.grouparcadia.com.au

Arcadia® maintains an ongoing research and testing program in the quest for product improvement and in consequence the information provided in this brochure may be subject to change without notice.



HUSH® ACOUSTIC LOUVRES

OVERVIEW

The Arcadia Hush® Acoustic louvre range has been developed to give designers, engineers and architects the opportunity to take advantage of natural ventilation, and still maintain noise control. The Hush® louvre range has been designed with a balanced approach to noise reduction, pressure drop and rain defence which makes it an all-round performer which can effectively contribute to an energy efficient and environmentally friendly solution. Since 1967 when Arcadia began manufacturing Acoustic ventilation products, the Hush® louvre system has been used in commercial, multi-residential, Industrial and mining applications across Australia.

Arcadia offers a comprehensive range of base materials and finishes to suit the needs of your project. A low profile and unobtrusive design allows the Hush® louvre system to integrate successfully into building facades.

IN THIS BROCHURE YOU WILL FIND

- Functions and Benefits
- Hush® design features
- Louvre size range
- Product features
- Options/Accessories
- Specification

We are available to answer your questions. Call our experts who will talk through your design requirements and will be more than happy to assist you.

Hush® Acoustic
Louvres maintains
noise control whilst
allowing airflow

HUSH® ACOUSTIC LOUVRES



FUNCTION

The Arcadia Hush® range is a high performance acoustic wall louvre commonly used in plant rooms, apartments, power stations and more. Acoustic louvres allow airflow and natural ventilation whilst controlling noise transmission that is generated from operating equipment.

Hush® louvres are manufactured in panel form which is made up of vertical mullion supports with horizontal louvre blades. These can be manufactured in sizes ranging from 150mm – 600mm deep. The depth of the louvre is generally determined by the level of sound attenuation required for your project. Pressure drop should also be considered when selecting a louvre model from Arcadia's Hush® Acoustic Louvre Range.

The Hush® Acoustic system is generally supported by horizontal or vertical secondary structural steel. Large premanufactured panels are unique to the Arcadia Hush® range and allow architects and designers to take advantage of wide louvre spans. The range of wall louvres can be customised to incorporate a functional door system. When connecting with mechanical services, inactive sections of the Hush® louvre system can be blanked off while others can remain active for air intake and exhaust.



BENEFITS

- Tested in accordance with AS1191-2002
- 150mm-600mm depth range
- Market leading performance and functionality
- Good level of rain defence
- Australian designed and manufactured
- Reduced carbon foot print and energy consumption
- Available in large modular panel sizes

HUSH® DESIGN FEATURES

PERFORMANCE

Arcadia has carried out extensive testing of its Hush® Acoustic louvre range over many years. In many applications both acoustic and aerodynamic performance are critical. Arcadia's Hush® louvres have been tested in laboratories across Australia in accordance with AS1191-2002. Arcadia's scientific development of the Hush® Acoustic Louvre offers innovative engineering specifically designed to achieve a quieter environment by effectively controlling noise pollution.

NATURAL VENTILATION

With Arcadia's Hush® noise control system, architects, engineers and designers are no longer required to lose the benefit of natural ventilation due to noise pollution. A large range of buildings can still take advantage of naturally ventilating plant-rooms, mechanical compounds and generator rooms, whilst maintaining reduced levels of noise pollution. Designers should consider the internal and external environments when integrating louvres into a project - what climate is the scheme operating in? Is the environment prone to dust particles? From which direction does the wind originate, and at what time of the day? Arcadia can assist in developing a project-specific solution.

INLET AIR

The earlier a natural ventilation scheme is incorporated in to the design of a project the better the final outcome, both in design and cost. Adequate inlet ventilation and positioning is essential for balancing the interior and exterior air pressures, eliminating back-drafting and increasing the ventilation performance.

PRESSURE DROP

Pressure drop is an important factor which must be considered when integrating Acoustic louvres. Louvre systems with high performing pressure drop allow mechanical plant to perform more efficiently which reduces heat loading and increasing life cycle. As a market leader in ventilation and acoustic products, Arcadia offers a product which is pressure drop tested.

MATERIALS & FINISHES

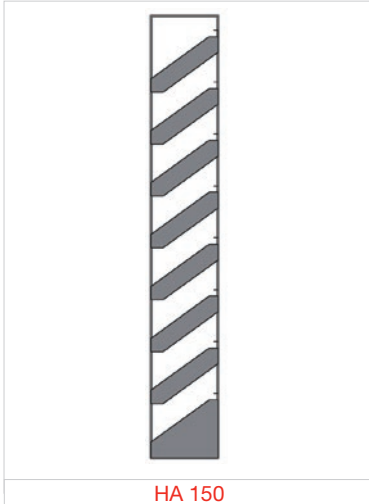
Arcadia provide a selection of metals; aluminium, stainless steel, Colorbond®, Zinalume®, and galvanised products within the Hush® range. Finishes available include powdercoat, colourcoat, anodised and specialised finishes upon request. In conjunction with our range of products, Arcadia has developed an extruded based Acoustic louvre which ensures the highest level of finishes, particularly when anodising. The 6000 Grade alloy proves to be superior in corrosive environments and allows for a smoother, cleaner and better prepared coating material which in turn provides product longevity.

DAMPER CONTROL

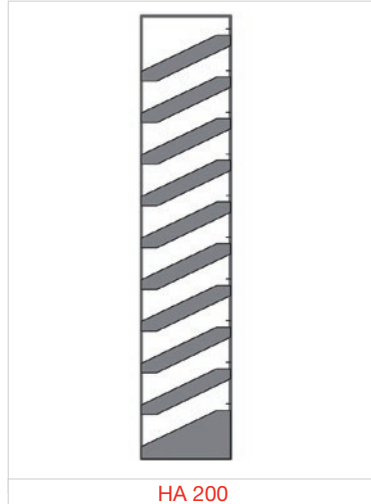
In our continual quest for providing leading edge products that answer the needs of our clients, Arcadia has designed and developed a Hush® damper system. This is mounted to the rear of the louvre and provides additional control such as; increase rain defence, reduces dust and particle entry and eliminates back-drafting. The Hush® Damper system can be electrically or pneumatically operated.



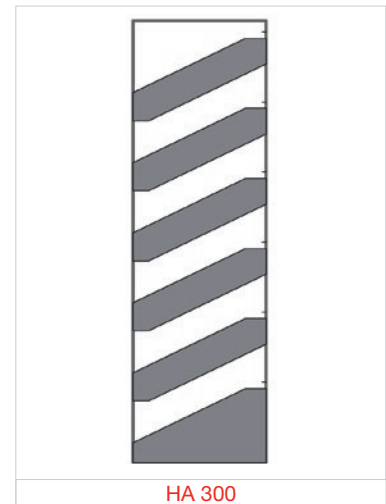
HUSH® LOUVRE COMPARISON



HA 150



HA 200



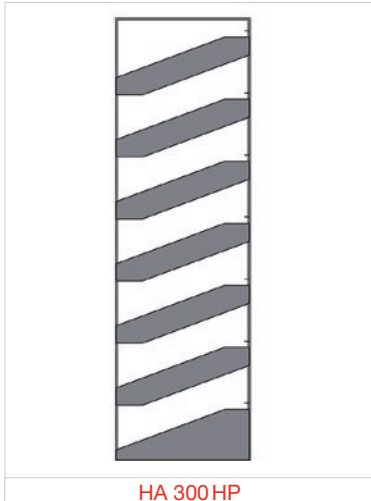
HA 300

MODEL	HA150	HA200	HA300
LOUVRE DEPTH	150mm	200mm	300mm
METAL COATED	●	●	●
ALUMINIUM	●	●	●
EXTRUDED ALUMINIUM	×	×	×
STAINLESS STEEL	●	●	●
ZINCALUME®	●	●	●
GALVANISED	●	●	●

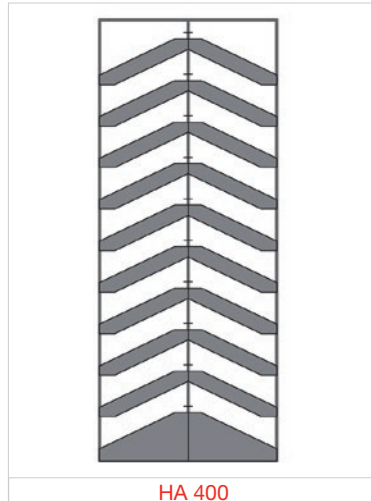
Noise reduction and pressure drop information are available upon request. Please contact Arcadia's technical sales team for specific product performance data and product detail drawings : 08 9458 4955



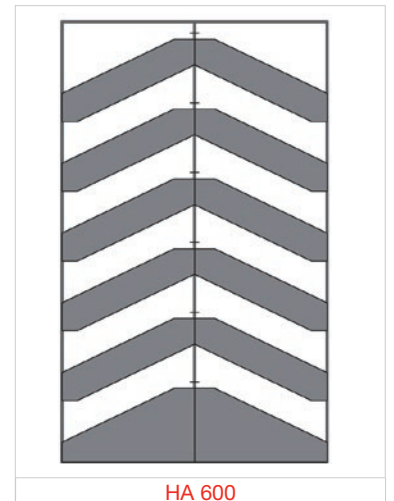
HUSH® DESIGN FEATURES



HA 300HP



HA 400



HA 600

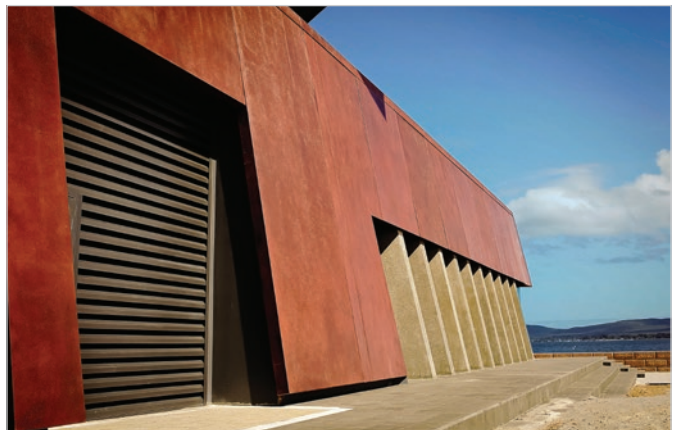
MODEL	300HP	HA400	HA600
LOUVRE DEPTH	300mm	400mm	600mm
METAL COATED	●	●	●
ALUMINIUM	●	●	●
EXTRUDED ALUMINIUM	●	×	●
STAINLESS STEEL	●	●	●
ZINCALUME®	●	●	●
GALVANISED	●	●	●

Noise reduction and pressure drop information are available upon request. Please contact Arcadia's technical sales team for specific product performance data and product detail drawings : 08 9458 4955.



HUSH® PROJECTS

COMMERCIAL + MULTI-RESIDENTIAL



HUSH® PROJECTS INDUSTRIAL



HUSH® | ACOUSTIC LOUVRE SPECIFICATION

HUSH® ACOUSTIC LOUVRES

Louvres shall be Arcadia Hush® (Select from **A** below) Acoustic Louvre model, in (select from **B** below) base material and finished using (select from **C** below).

Noise reduction and aerodynamic performance to be as per Arcadia test data, and shall be laboratory tested in accordance with AS1191-2002 the manufacturer's details.

ACCESSORIES

The Hush® Acoustic Fixed Louvres shall incorporate all necessary heads, sills, and joint flashings as standard with the manufacturer. Accessories to be fitted to the shall be (select from **D** below).

INSTALLATION AND MOUNTING

Acoustic Louvre panels will be mounted to vertical/horizontal structural support steel members by others. Installation and mounting details will be designed to satisfy wind actions for Region (select from **E** below) and Terrain Category (select from **F** below) in accordance with AS 1170.2 and designed to suit Arcadia proprietary systems and manufacturer's recommendations.

A. LOUVRE MODEL

- HA 150 | Refer to Pg 6
- HA 200 | Refer to Pg 6
- HA 300 | Refer to Pg 6
- HA 300HP | Refer to Pg 7
- HA 400 | Refer to Pg 7
- HA 600 | Refer to Pg 7

B. BASE MATERIAL

- Zinalume® *
- Colorbond® *
- Stainless steel
- Extruded aluminium - G6000
- Aluminium
- Galvanised Steel

C. LOUVRE FINISH

- Powdercoat
- Anodised
- As base material

D. ACCESSORIES

- Not required
- Bird mesh
- Insect mesh
- Perforated mesh
- Security screen
- Blanking Plates
- Rear Dampers

E. REGION

- Region A
- Region B
- Region C
- Region D

F. TERRAIN CATEGORY

- 1
- 2
- 2.5
- 3
- 4

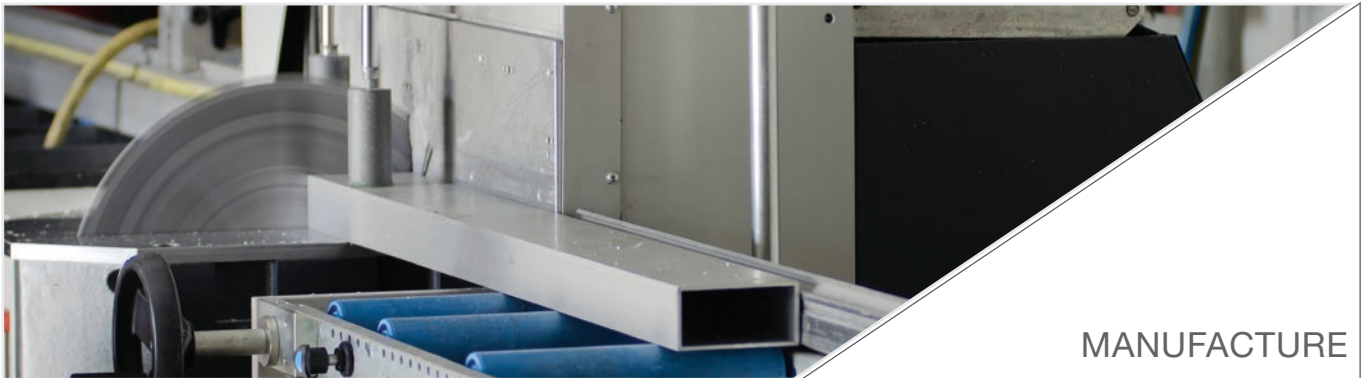
* Colorbond®, Colorbond® Ultra and Zinalume® are registered trademarks of Bluescope Steel. Arcadia reserves the right to use alternative similar products to Zinalume® and Colorbond® materials.

NOTE: Due to the diversity of control options available it is recommended that specifying authorities take advantage of the engineering service offered by Arcadia.

ARCADIA IS A COMPANY THAT OFFERS A PROFESSIONAL TEAM WITH DIVERSE EXPERTISE.



DESIGN



MANUFACTURE



PROJECT MANAGEMENT



SERVICING MAINTENANCE

PROVIDING A FULL SPECTRUM OF SERVICES FROM CONCEPT TO COMPLETION FOR EVERY ASPECT OF YOUR PROJECT.

COMPANY NAME

Arcadia Global Pty. Ltd.

ABN No 62 008 668 291

FOUNDED

1927

EMAIL

admin@grouparcadia.com.au

WEBSITE

WWW.GROUPARCADIA.COM.AU



SYDNEY - MELBOURNE - BRISBANE - ADELAIDE - PERTH - DARWIN

PHONE 1300 458 458

EMAIL sales@grouparcadia.com.au

©2017 Arcadia Global Pty. Ltd.

This document is protected by copyright and all rights are reserved. No part of it may be reproduced, stored in a retrieval system or transmitted in any form by any means electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the owner of the Copyright, or pursuant to the terms of a licence granted by behalf of the Copyright owner.