

# ARCADIA PULSE<sup>®</sup>

OPERATING LOUVRE SYSTEM





## PULSE® OPERATING 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](http://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.



# PULSE® OPERATING LOUVRE SYSTEM

## OVERVIEW

Arcadia Pulse® Operating Louvre Systems provide control and adaptability for optimal air exchange performance. In comparison with fixed louvre systems, Pulse® Operable Louvres allow building designers the opportunity to naturally ventilate a building providing defence against rain when closed. The incorporation of Pulse® Operating Louvres provides many benefits to designers and occupants.

Benefits include:

- Introduction of fresh air to improve working environment, morale and productivity
- Increased energy efficiency through use of natural ventilation
- High discharge efficiency
- Electric, pneumatic and manual control options
- Suitable for industrial, commercial and indoor recreational projects

The wall mounted Arcadia Pulse® Operating Louvre blades are available in a range of materials including: formed aluminium, Colorbond®, composite cladding, glass, polycarbonate and extruded aluminium. Finishes can be selected from the Powdercoat or Anodising colour ranges. Pulse® Operating Louvres can be manufactured to specific designs to meet wind load requirements in all regions and terrain categories.

Louvre bank control options include manual latch, manual winders, pneumatic, electric and remote control. The oscillating controlled louvre successfully integrates with a Building Management System (BMS) for effective natural ventilation performance, increased comfort level and reduced energy consumption.

## IN THIS BROCHURE YOU WILL FIND

- Pulse® Operating Louvre Profiles and supporting information
- Options available
- Design specification

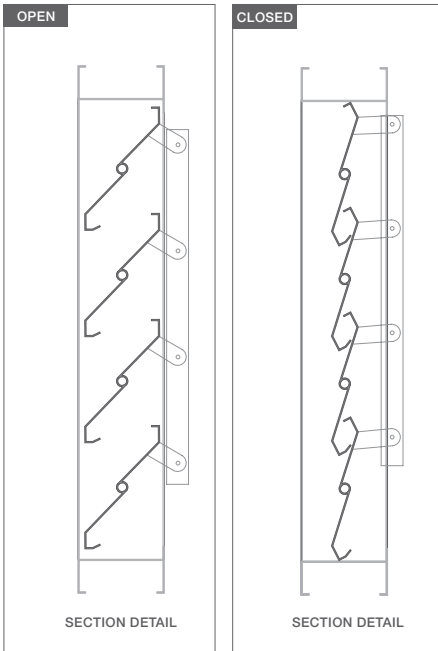
We are available to answer your questions. Call our experts who will talk through your design requirements and will be more than happy to assist you.

## PULSE®

- C o n t r o l  
- A d a p t a b l e  
- P e r f o r m a n c e

# ADJUSTABLE NATURAL VENTILATION

## PULSE® MODULAR Operating Louvres



## PULSE® M

The Arcadia Pulse® M is recognised as a slim-line operating system where the louvre blades are contained within the frame depth from the fully open to the closed position. Louvres are fabricated in unitised modules and can be coupled to provide a continuous louvre bank to allow large openings for air flow.

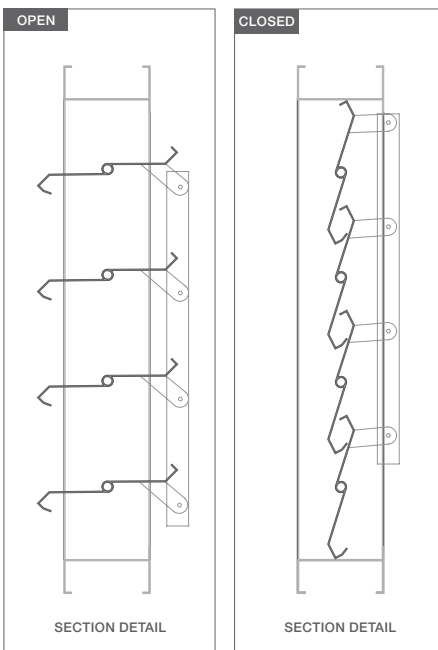
With multiple louvre depths available the system can be successfully integrated within a variety of wall cladding applications.

Dependent on material selection and location, the Pulse® M typically spans up to 1500mm.

FRAME DEPTH	75mm, 100mm, 150mm
FREE AREA	45%
BASE MATERIAL	Colorbond® Zinalume® Galvanised, Aluminium, Stainless Steel
FINISHES	Powdercoat, Anodised, Colorbond®
APPLICATIONS	Recreational Facilities, Workshops, Mining and Servicing Facilities



## PULSE® VAST Operating Louvres



## PULSE® V

The Arcadia Pulse® V is highly sought after when designers and engineers require higher levels of air intake and exhaust through reduced dimensioned openings.

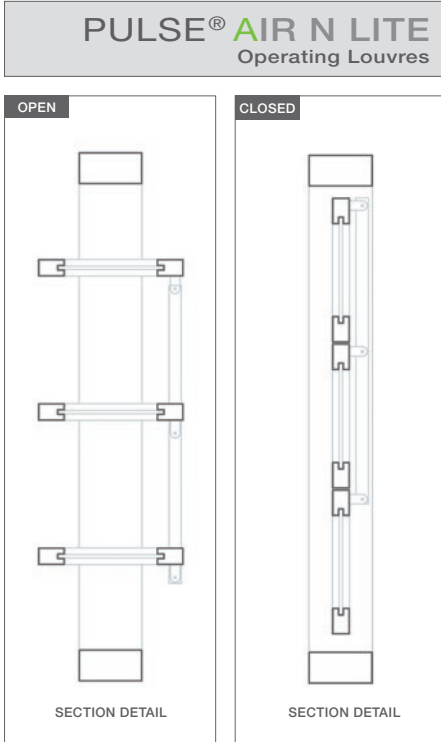
The Pulse® V delivers a high level of inlet or exhaust airflow, providing 85% free area. This makes the Pulse® V an ideal choice when working with restricted opening areas and is an economical choice due to less louvre area being required.

Louvres are fabricated in unitised modules and can be coupled to provide a continuous louvre bank. Although dependent on material selection and location, the Pulse® V typically spans up to 1500mm.

FRAME DEPTH	100mm, 150mm
FREE AREA	85%
BASE MATERIAL	Colorbond® Zinalume® Galvanised, Aluminium, Stainless Steel
FINISHES	Powdercoat, Anodised, Colorbond®
APPLICATIONS	Recreational Facilities, Workshops, Mining and Servicing Facilities



Arcadia Pulse® Operating Louvres promote airflow to provide greater comfort, better health and safe work environments



## PULSE® A

Arcadia Pulse® A is a wide span louvre system with a high efficiency of discharge allowing up to 83% free area. Delivering high airflow and allows natural light inlet the Pulse® A is major contributor to achieving higher green star ratings. Although it is dependent on material selection and location, the Pulse® A spans up to 2400mm.

Designers have specified the Pulse® A on recreational and sporting facilities as it allows composite cladding to be used within the louvre blade to provide a continuous façade appearance.

Industrial workshop facilities have seen the Pulse® A provide high levels of fresh air flow to remove fumes and toxic acids allowing the building to breathe.

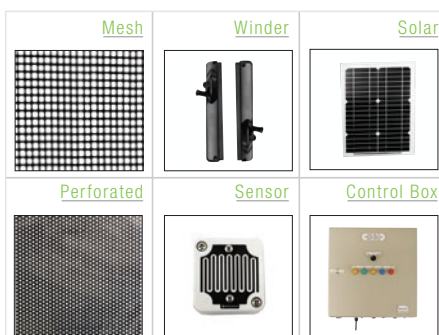
- FRAME DEPTH 100mm, 150mm
- FREE AREA Up to 83%
- BASE MATERIAL Colorbond® Zincalume® Galvanised, Aluminium, Stainless Steel
- FINISHES Polycarbonate, Glass, Fibreglass, Colorbond® Sheet metal, Aluminium
- APPLICATIONS Recreational Facilities, Workshops, Mining and Servicing Facilities



## ACCESSORIES

Through Arcadia's years of experience we have come to appreciate that no buildings have ever the same design requirements. Due to this we have developed a range of accessories for specific control to successfully manage variable weather conditions. Designers have the option to integrate rain or wind sensors.

The Pulse® Series has the capacity to communicate with building management systems (BMS) or with the fire management systems. Arcadia also offers a range of security, impact and mesh screens to suit the specific building design requirements.



# PULSE® | OPERATING LOUVRE SPECIFICATION

## PULSE® OPERATING LOUVRES

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Operating louvres shall be Arcadia (Select from **A** below), (select from **B** below) in (select from **C** below) base material and using (select from **D** below) finish.

### RELEVANT TO PULSE® A ONLY

Pulse® A louvre blade infill to be (select from **E** below) as standard with the manufacturer.

## LOUVRE CONTROL & ACCESSORIES

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Pulse® Operating Louvre System shall incorporate necessary heads sills, and joint flashings as standard with the manufacturer. Louvres shall be operated using (select from **F** below) control. Louvre control will be interfaced with Arcadia (select from **G** below). Screening of the louvres shall be (select from **H** below).

## INSTALLATION AND MOUNTING

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Installation and mounting details will be designed to satisfy wind actions for Region (select from **I** below) and Terrain Category (select from **J** below) in accordance with AS 1170.2 structural design actions to suit Arcadia proprietary systems and manufacturer's recommendations.

### A. LOUVRE MODEL

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- Pulse® M series
- Pulse® V series
- Pulse® A series

### B. FRAME DEPTH

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- 75 mm
- 100 mm
- 150 mm

### C. BASE MATERIAL

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- Zinalume® \*
- Colorbond® \*
- Extruded Aluminium
- Aluminium

### D. LOUVRE FINISH

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- Powdercoat
- Anodised
- As per base material

### E. LOUVRE INFILL

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- Glass
- Polycarbonate
- Aluminium Composite
- Aluminium

### F. LOUVRE OPERATION

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- Manual Winder
- Manual Latch (no Key lock)
- Manual Latch (with Key lock)
- Pneumatic
- Electric
- Remote Control

### G. LOUVRE CONTROL

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- Not Required
- Rain Sensor
- Control Box
- UPS battery backup

### H. LOUVRE SCREENING

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- Not required
- Bird mesh
- Insect mesh
- Perforated metal screen
- Security Screens

### I. REGION CATEGORY

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

### J. TERRAIN CATEGORY

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- 1
- 2
- 2.5
- 3
- 4

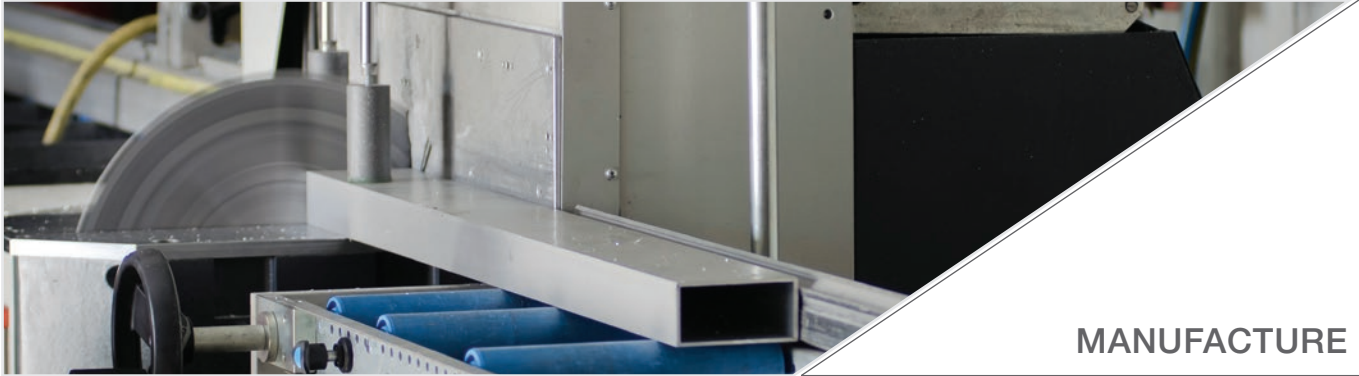
\* Colorbond® and Zinalume® are registered trademarks of Bluescope Steel. Arcadia reserves the right to use alternative similar products to Zinalume® and Colorbond® materials.

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.

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