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McKenzie Martin

Louvres & Ventilation Systems

Louvres

Maximair Louvre Systems
Maximair 100 Louvres



Maximair Louvre Systems

Maximair 100 Louvres



Description

The Maximair 100 Louvre is a heavy duty extruded natural ventilation system which provides both intake and exhaust to internal spaces while maintaining an architectural appearance.

Design

- Maximair Louvres are manufactured from aluminium extrusions grade 6063 T6 to BS 1474.
- Welded mitred corners to give sharp aesthetic appearance.
- Louvre blades have been designed to achieve maximum weather protection whilst maintaining an efficient airflow.

System Options

- Intake/extract louvres requiring enhanced water/weather rejection
- Turrets
- Mitred corners
- Tapered louvres
- Different shapes including circular, triangular, etc.
- Box frames, flanges, cills, flashings
- Birdmesh
- Flymesh
- Blanking plates (single skin or insulated)
- Louvred Doors
- Double/multiple banks

Finishes

Louvres can be supplied in a variety of finishes including

- Natural mill finish
- Polyester powder paint finishes (including Syntha Pulvin)
- Anodising to Anolok II.

Installation

Louvre modules are supplied completely assembled either with integral box frames or concealed mullion supports, depending upon application. For applications requiring large areas of continuous unbroken appearance, installation time is minimised as all louvre blades are precisely factory pre-assembled onto supporting pre-punched mullions for ease of on site fitting by the fixing contractor.

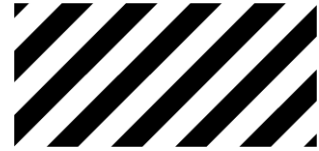


A variety of finishes to suit your needs



Maximair Louvre Systems

Maximair 100 Louvres

**System Materials:**

The main body of the Maximair 100 system is made from extruded Aluminium grade 6063-T6 with the flanges and external boxes produced from 1.2mm Aluminium Sheet.

The units can be provided in Mill Finish Aluminium, Polyester Powder Coated or Marine Grade Polyester Powder Coated and fitted with an optional Bird mesh (1.2mm expanded aluminium alloy, diamond mesh size 12.35mm x 35.05mm) or Insect mesh (perforated expanded aluminium alloy, diamond mesh size 3.5mm x 2mm)

Single skin 1.5mm aluminium or Double skin insulated or acoustic 1.5mm aluminium blanking plates are also available if required

Size, free area & weight

Louvre units can be manufactured to bespoke sizes to suit most requirements, larger non-standard sizes are manufactured in multiple sections for site assembly by installer. Standard units have an approximate weight of 16kg/m²

The system provides a free area of 52%

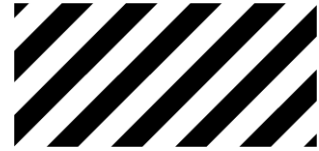
Construction

Louvre blades are installed with concealed blade support brackets onto hidden support carrier mullions, and are supplied in a series of fully assembled modules to form continuous louvres banks with an unbroken appearance. Alternatively smaller individual units can be supplied in box louvre format, fully assembled with integral top, side and cill flashings.

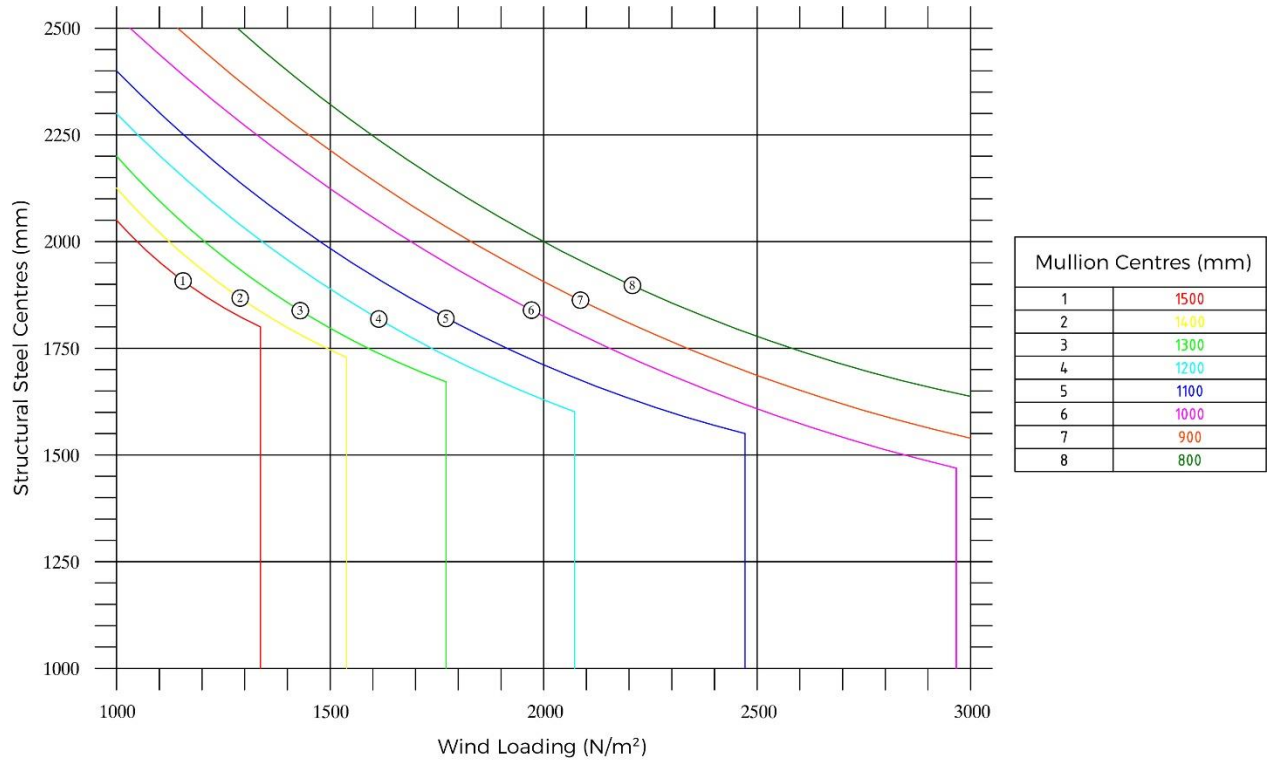


Maximair Louvre Systems

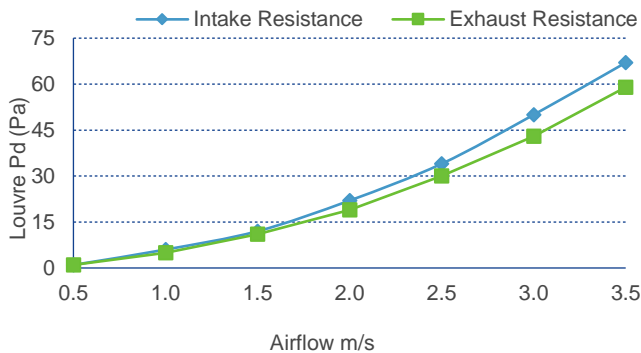
Maximair 100 Louvres



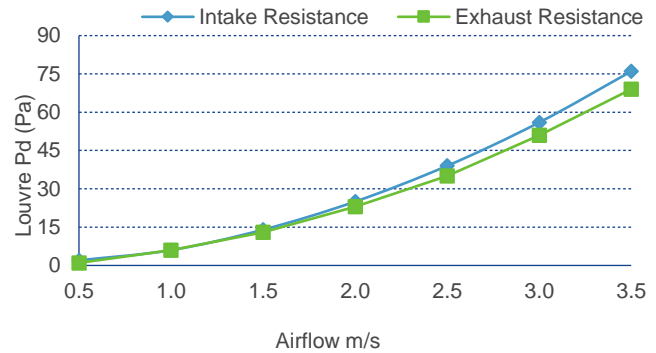
Technical Details



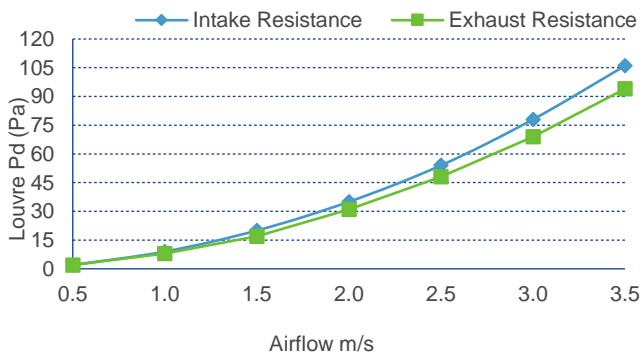
Maximair 100 – Wind loading details



Maximair 100 – Pressure Drop – No Mesh



Maximair 100 – Pressure Drop – Bird Mesh



Maximair 100 – Pressure Drop – Fly Mesh

Inlet/Exhaust	Mesh Fitted	Cd
Inlet	None	0.33
Exhaust	None	0.353
Inlet	Bird	0.311
Exhaust	Bird	0.326
Inlet	Fly	0.263
Exhaust	Fly	0.279

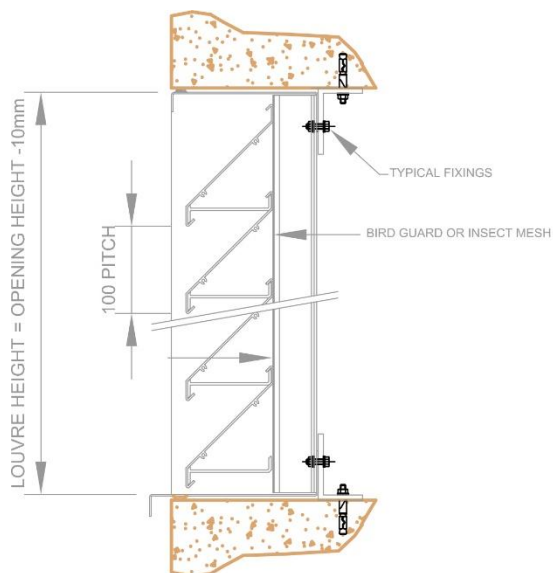


Maximair Louvre Systems

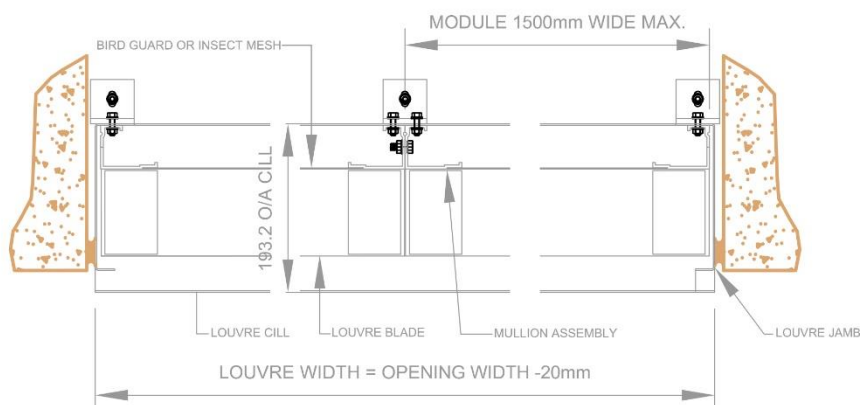
Maximair 100 Louvres



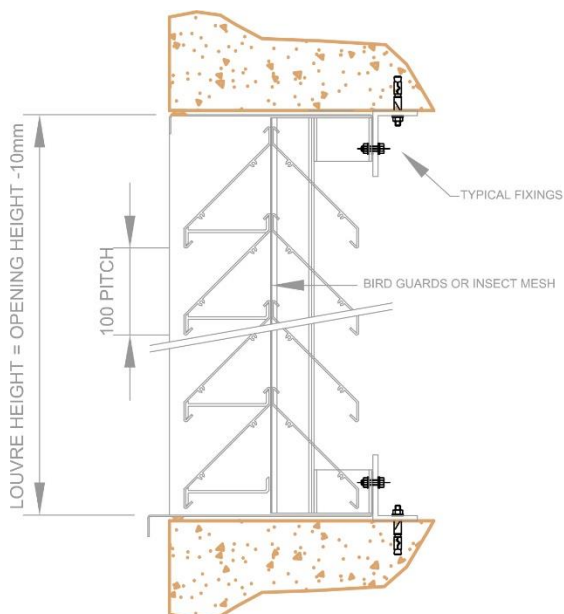
Standard Details



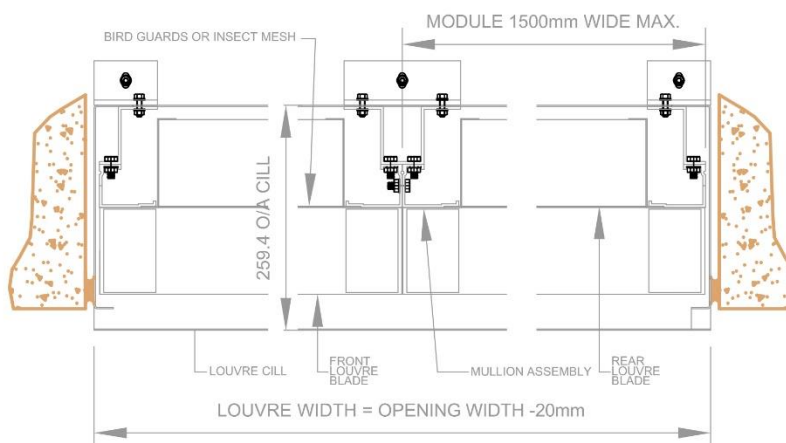
Vertical Section
Maximair 100 Single Bank



Plan Section
Maximair 100 Single Bank



Vertical Section
Maximair 100 Double Bank

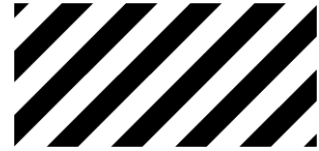


Plan Section
Maximair 100 Double Bank



Maximair Louvre Systems

Maximair 100 Louvres



Specifications



Maximair 100 Louvre – L10 NBS Spec

Manufacturer: McKenzie Martin Ltd,

Product Reference: Maximair 100 Louvre

Description: High performance, heavy duty louvre. Suitable for architectural purposes.

Louvre Blade Pitch: 100mm

Overall Depth: 150mm (with mullion)

Measured Free Area: 52%

Coefficient of Discharge: 0.353

Material (Louvre Blades, Clips and Mullions): Extruded aluminium grade 6063-T6

Material (Flanges and External Boxes): 1.2mm Aluminium 1050A H14

Construction: Pre-built modules

Finish: Mill Finish Aluminium / Polyester Powder Coated / Marine Grade Polyester Powder Coated

Mesh: Bird guard 1.2mm expanded aluminium alloy, diamond mesh size 12.35mm x 35.05mm / Insect mesh perforated expanded aluminium alloy, diamond mesh size 3.5mm x 2mm

Blanking Plates: None / Single skin 1.5mm aluminium / Double skin insulated or acoustic 1.5mm aluminium

Fixing: Louvres to be installed in line with manufacturer's instructions by a competent installer



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