



45100

PLANT ROOM | ROOFTOP SCREENING

LOUVRE FREE AIR: 55% MINIMUM

PRODUCT DESCRIPTION

Single-stage horizontal 45° louvre with 100 mm blade pitch designed for reliable ventilation and visual screening where weatherproofing is not critical. Available as Box Frame (45100BF) or Angled Frame (45100AF) with mullions as required or as Blades on Carrier Rail (45100CR) with capping & corner flashing. Nominal free open area: 55% (min.). Typical uses include plant room intakes/reliefs, rooftop screens and mechanical equipment enclosures.

MATERIAL

STANDARD - Australian extruded aluminium 6063-T5

OPTIONAL - High quality Australian steel, vermin/bird mesh

FINISH

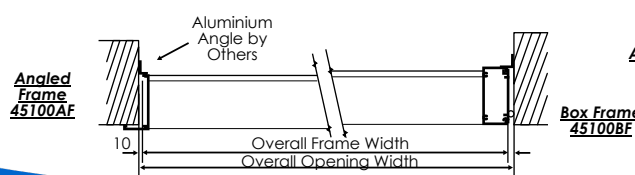
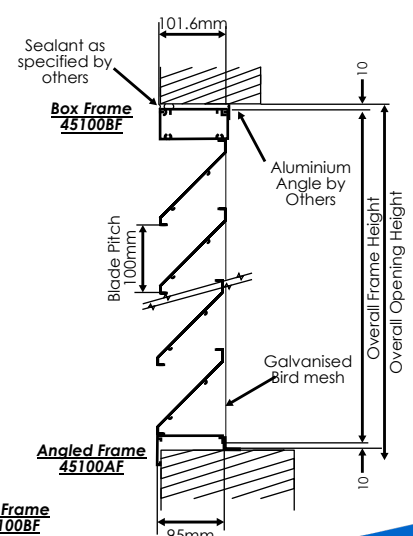
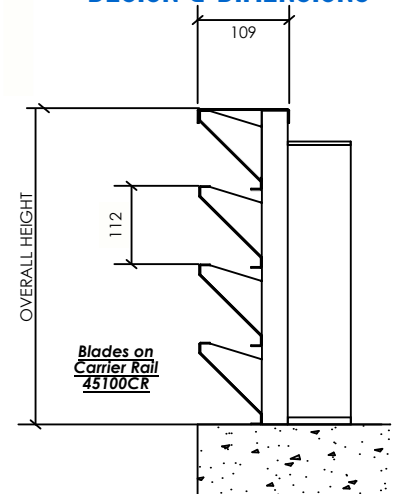
STANDARD - Mill Finish or Natural anodised

OPTIONAL - Colour anodised or powder coated

INSTALLATION

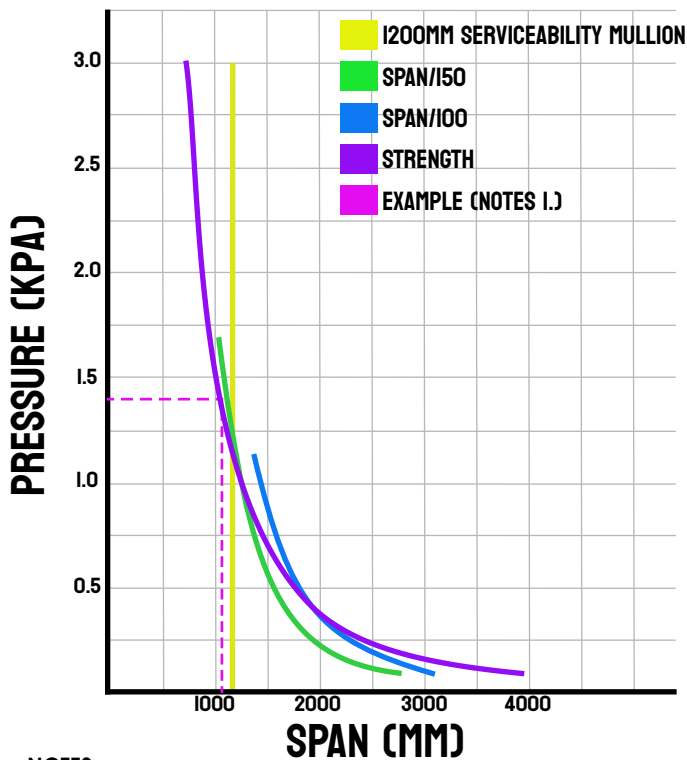
Supplied as 45100 BF (box frame) or 45100 AF (angle frame) modules for fixing to openings or sub-frames

DESIGN & DIMENSIONS



ENGINEERING GRAPHS

SAFE LOAD TABLE



NOTES:

1. EXAMPLE: If the above louvre is required to resist a working pressure of 1.4KPa the maximum span possible is 1100mm
2. A serviceability mullion is required for lengths greater than 1200mm.
3. Two deflection curves are included to cover areas which are not governed by strength - i.e. Low pressure zones
4. The Span (mm) is the horizontal distance between mullions

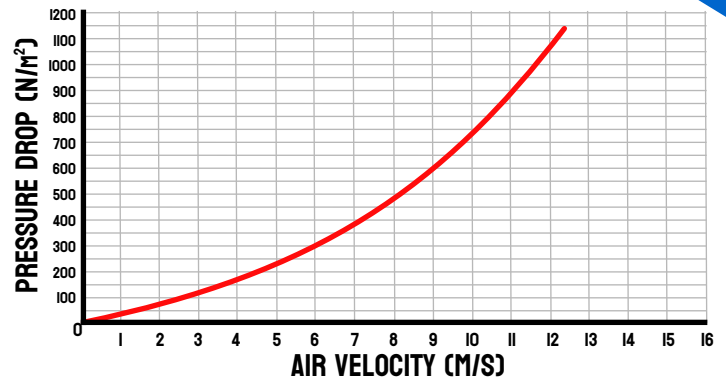
COMPLIANCE

Structural design actions: wind pressures by AS 1170

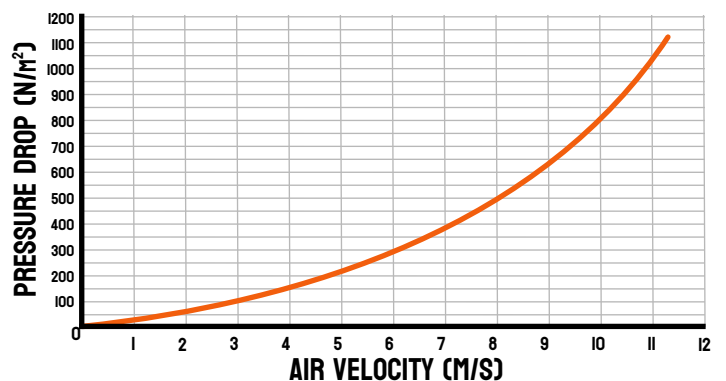
Aluminium design/stresses: AS 1664

Fabrication from 6063-T5 extrusions to industry tolerances; project-specific engineering available

PRESSURE DROP MEASUREMENTS FLOW INSIDE TO OUTSIDE



FLOW OUTSIDE TO INSIDE



Tests performed by: TECHSEARCH INCORPORATED

Reports generated by: DARE SUTTON CLARKE ENGINEERS

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 home or business. For more information and a free quote please contact us at