



4537



PLANT ROOM | VENTILATION

LOUVRE FREE AIR: 60% MINIMUM

PRODUCT DESCRIPTION

Single-stage horizontal 45° louvre with 42 mm blade pitch for installations that need a tighter blade spacing and higher visual screening while maintaining ventilation. Supplied as Box Frame (4537 BF) or Angled Frame (4537 AF) with mullions as required (Free open area varies with size, mullions and accessories). Typical uses include AHU/plant-room intakes and discharges, façade screens where closer blade spacing is preferred, and rooftop plant enclosures.

MATERIAL

STANDARD - Australian extruded aluminium 6063-T5
OPTIONAL - High quality Australian steel, vermin/bird mesh

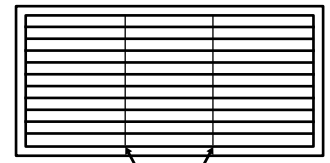
FINISH

STANDARD - Mill Finish or Natural anodised
OPTIONAL - Coloured anodised or powder-coated

INSTALLATION

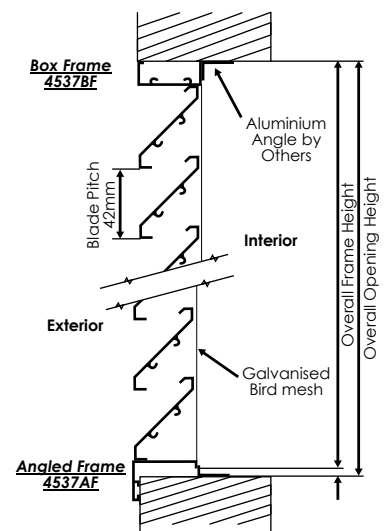
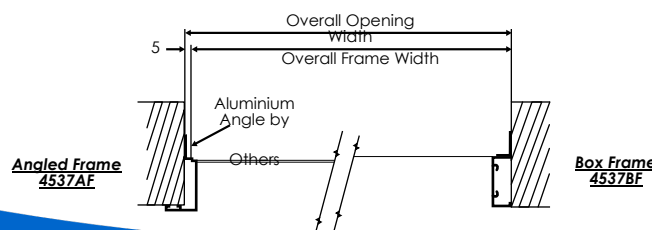
Factory-built modules in 4537 BF (box frame) or 4537 AF (angle frame) for fixing to prepared openings or sub-frames

DESIGN & DIMENSIONS



Mullions as Required

NOTE: Single stage louvres by their design are not weatherproof. A clearance of 1 1/2 times the louvre height should be allowed between the louvre & equipment.



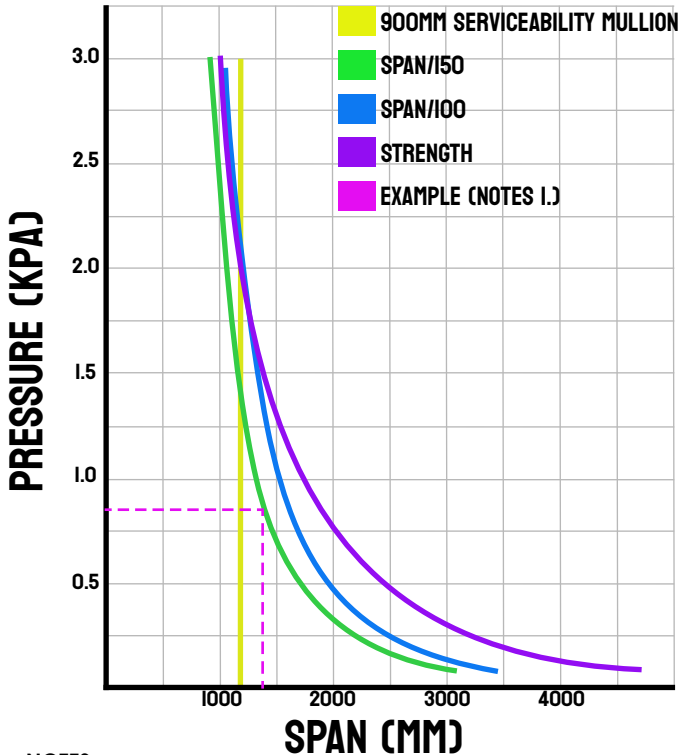


TYPICAL SECTION

4537

ENGINEERING GRAPHS

SAFE LOAD TABLE

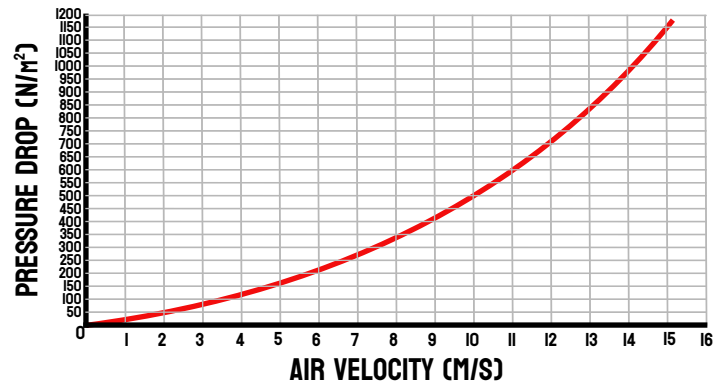


NOTES:

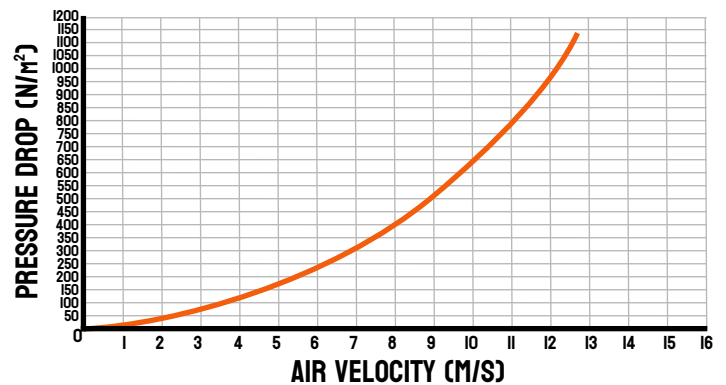
1. EXAMPLE: If the above louvre is required to resist a working pressure of 0.8KPa the maximum span possible is 1450mm
2. A serviceability mullion is required for lengths greater than 900mm.
3. Two deflection curves are included to cover areas which are not governed by strength - i.e. Low pressure zones
4. The Span (mm) is the horizontal distance between mullions

PRESSURE DROP MEASUREMENTS

FLOW INSIDE TO OUTSIDE



FLOW OUTSIDE TO INSIDE



Tests performed by: TECHSEARCH INCORPORATED
 Reports generated by: DARE SUTTON CLARKE ENGINEERS

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

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