

THOR SYSTEM

C 100MM



INVICTA

INDUSTRIES

WEATHER RESISTANT LOUVRE

Named after the Norse god of thunder, THOR (*Son of Zeus*) is a louvre system built for power, protection, and performance. Just like its namesake, it stands strong against the elements — bold, resilient, and engineered to withstand whatever nature throws its way.

INTRODUCTION & ARCHITECTURAL FEATURES



INTRODUCING THOR: THE NEXT GENERATION IN LOUVRE DESIGN

Engineered for performance, THOR is the latest horizontal louvre system developed by Invicta Industries. Built for high-demand environments, it offers modern design, screening, and excellent airflow. Perfect for equipment enclosures, plant rooms, or architectural facades—THOR delivers efficiency without compromise.

KEY FEATURES:

- 100mm deep extruded aluminium blade profile
- Horizontal oriented blades to enhance ventilation and weather proofing
- Ideal for industrial and commercial ventilation applications
- 25 Year Commercial Powdercoat Warranty

PERFORMANCE SPECIFICATIONS:

- Free Open Area (FOA): 60%
- Blade Pitch: 80mm
- Maximum Blade Span: 1500mm
- Maximum Blade Length: 6000mm
- Load Capacity: Conforms to incidental live load requirements

TEST CERTIFICATIONS:

- Rain Defence: Class C (90% effectiveness AS/NZS 4740:2000)
- Aerodynamic Performance: Class 2 (Discharge Coefficient: 0.517)
- Pressure Drop Testing: Conducted at air velocities from 1–3 m/s



DESIGNED FOR THE
DIVINE.
ENGINEERED FOR THE
STORM.

MATERIALS, FINISHES, ACCESSORIES & TECHNICAL PERFORMANCE

MATERIAL OPTIONS:

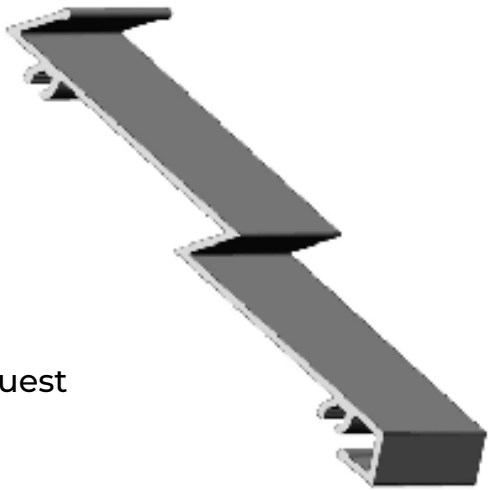
- Aluminium Alloy: 6063
- Temper: T6
- High-grade extruded aluminium construction
- Powder coating and anodised finishes

OPTIONAL MESH TYPES:

- Bird/Vermin Mesh: Galvanised, stainless steel
- Insect Mesh: Fibreglass or aluminium
- Customisation: Specialised finishes available upon request

ACCESSORIES:

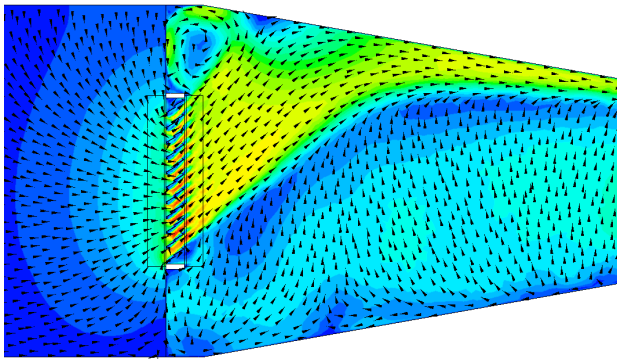
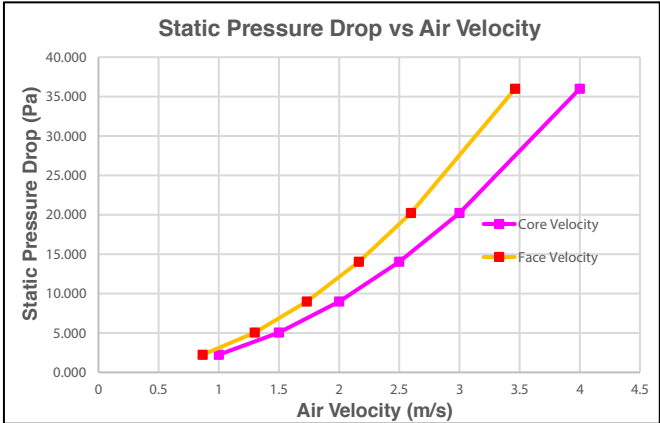
- Integrated louvred doors
- Removable mesh panels for easy maintenance
- Security grilles for added protection



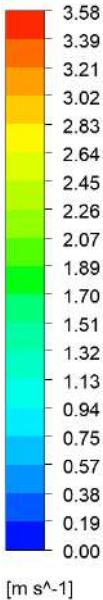
STATIC PRESSURE DROP VS. AIR VELOCITY CHART:

Air Velocity (m/s)	Static Pressure Drop (Pa)
1	2.238
1.5	5.056
2	8.986
2.5	14.025
3	20.210

Note: Standard recommendation is to remain below 30 Pa at 1.5 m/s.



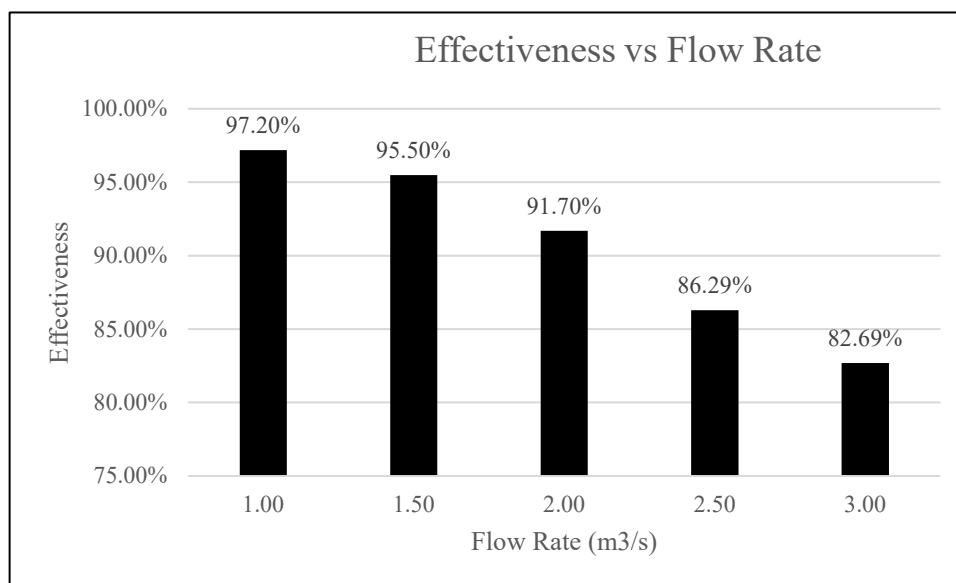
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STATIC PRESSURE DROP VS. AIR VELOCITY CHART:

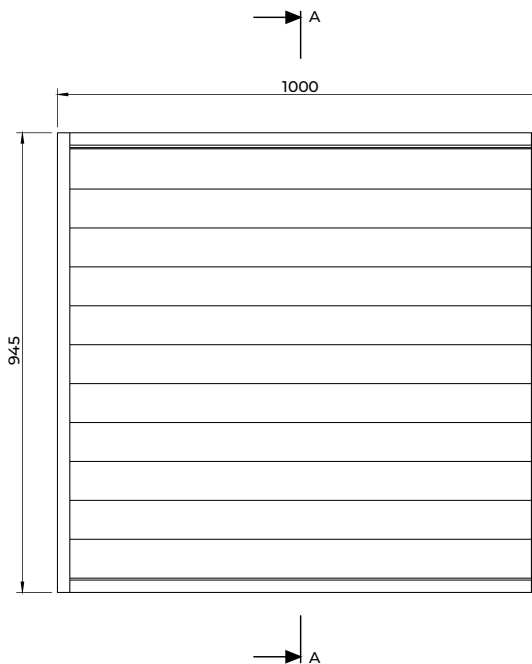
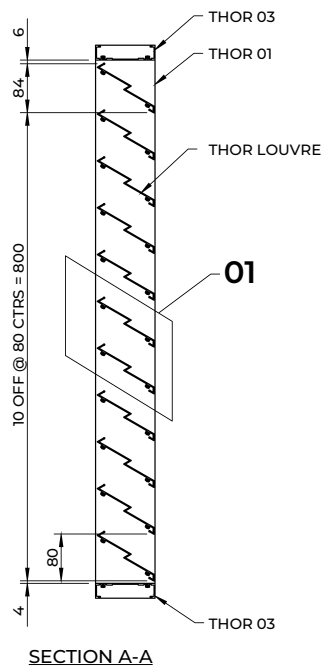
Ventilation Air Flow Rate (m3/s)	Effectiveness
1	97.20%
1.5	95.50%
2	91.70%
2.5	86.29%
3	82.69%



- The THOR Louvre achieves an impressive average effectiveness of 90%, securing its place in the distinguished Class C rain defense category.



SECTION VIEW DRAWING



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