

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

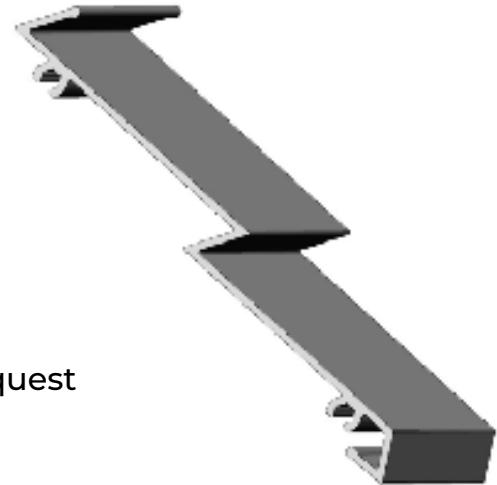
DESIGNED FOR THE
DIVINE.

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

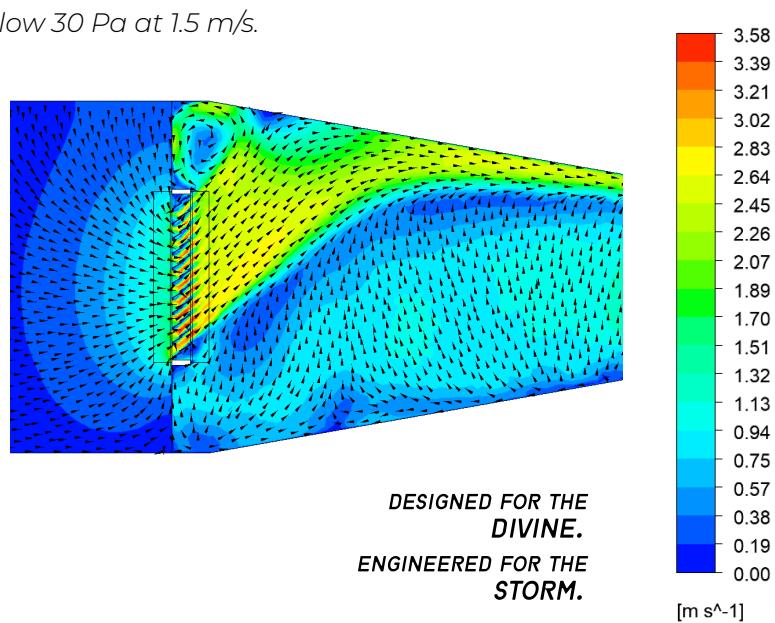
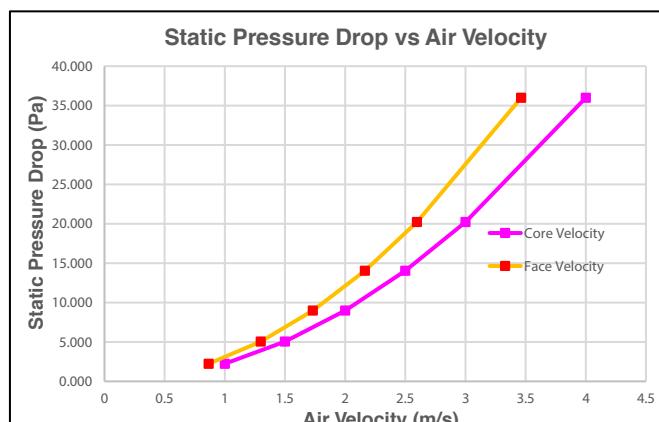
ACCESSORIES:

- 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 |

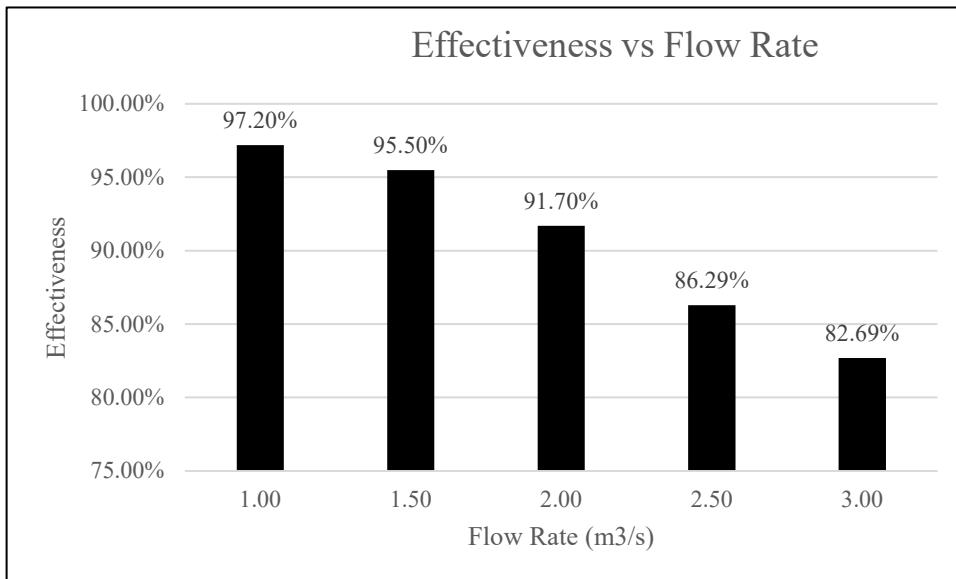
Note: Standard recommendation is to remain below 30 Pa at 1.5 m/s.





STATIC PRESSURE DROP VS. AIR VELOCITY CHART:

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

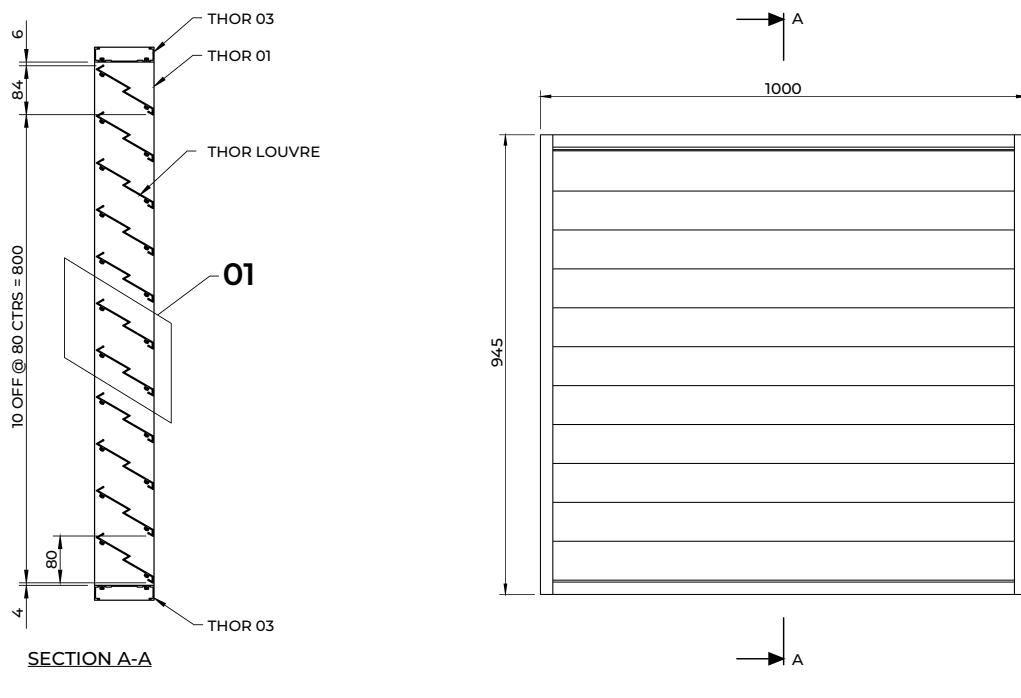


- The THOR Louvre achieves an impressive average effectiveness of 90%, securing its place in the distinguished Class C rain defense category.

TECHNICAL ILLUSTRATIONS



SECTION VIEW DRAWING



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