



THOR System

Built to perform, designed to endure



Named after the Norse god of thunder, THOR 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.



Key Features:

- 100mm deep extruded aluminum blade profile
- Horizontal orientated blades to enhance ventilation & weather proofing
- Ideal for industrial & commercial ventilation applications
- 25 year commercial Powder-coat warranty

Performance Specs:

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

Rain Defense: Class C 

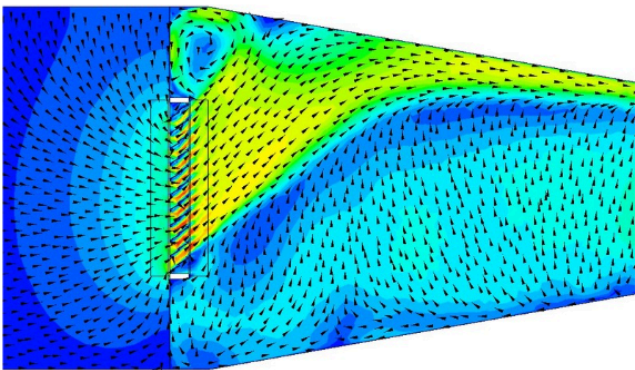
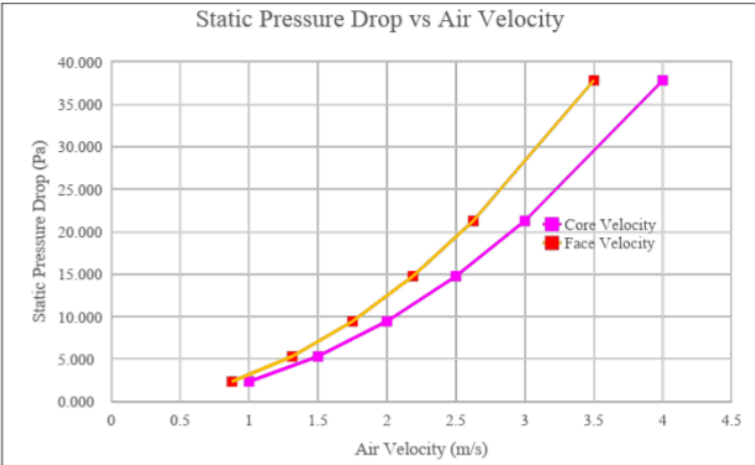
Aerodynamics: Class 2 

Performance tested to AS/NZS 4740:2000

DESIGNED FOR THE
DIVINE.
ENGINEERED FOR THE
STORM.

Aerodynamics:

The pressure drop across the louvre is evaluated for different velocities across the louvres. The average discharge coefficient of the louvre is 0.505. Based on the discharge coefficient Thor Louvre achieves **Class 2** performance rating. The resistance curve generated based on the static pressure drop evaluated from CFD analysis is as shown in graph below.



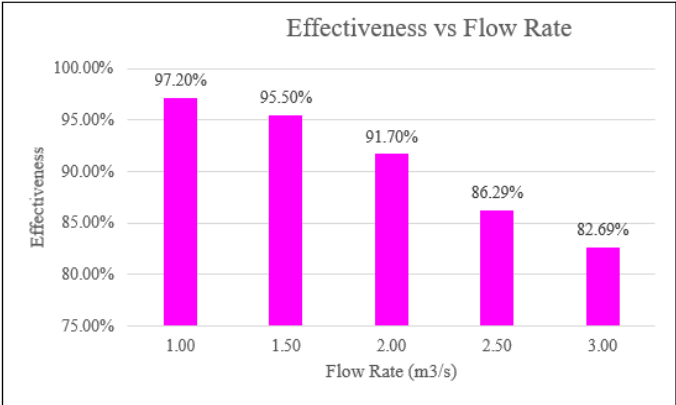
STATIC PRESSURE DROP VS. AIR VELOCITY CHART:

Air Velocity (m/s)	Static Pressure Drop (PA)
1	2.361
1.5	5.321
2	9.453
2.5	14.759
3	21.260

Rain Defense:

The effectiveness of the THOR Louvre in restricting the rain penetration for different ventilation flow rate is as shown in table below.

Average effectiveness of the THOR Louvre is 90%, hence Thor louvre falls under a **Class C** rating.



Air Flow Rate	Effectiveness	Class
1	97.20%	B
1.5	95.50%	B
2	91.70%	C
2.5	86.29%	C
3	82.69%	C

Material Options:

Constructed from premium 6063-T6 extruded aluminium, delivering superior structural performance and long-term durability. Finished with high-quality powder coating or anodising for enhanced protection and refined aesthetics.

Optional Mesh Types:

Bird/Vermin: Galvanised or stainless steel

Insect: Fibreglass or aluminium

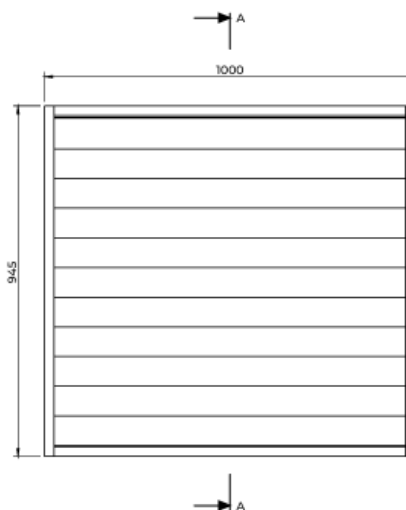
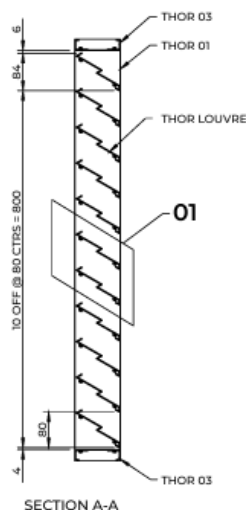
Custom finishes available upon request

Accessories:

Integrated louvred doors designed for seamless access, featuring removable mesh panels for simplified maintenance and optional security grilles for enhanced protection.



In partnership with Alspec's GreenCore® technology, Invicta Industries now offers full louvre range in **low-carbon aluminium**. This innovation reduces embodied carbon while maintaining strength, precision and performance.



Need more info?!

If you have any questions about this product, please speak to our expert team & they will guide you in the right direction. Info below.

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 [invicta.industries](https://www.instagram.com/invicta.industries)

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