



ZEUS HYDRA-SHIELD System

Command the Elements. Control the Rain.



Whether battling gales or guarding against the deluge, ZEUS HYDRA-SHIELD is your frontline defender – the ultimate shield in the war against the weather.



Rain Defense: Class A 

Aerodynamics: Class 3 

Performance tested to AS/NZS 4740:2000

Key Features:

- 150mm deep extruded aluminum blade profile
- Horizontal orientated blades to enhance ventilation & weather proofing
- 3mm 51% FOA perforated attached to the front for additional weather protection
- Ideal for industrial & commercial ventilation applications
- 25 year commercial Powder-coat warranty

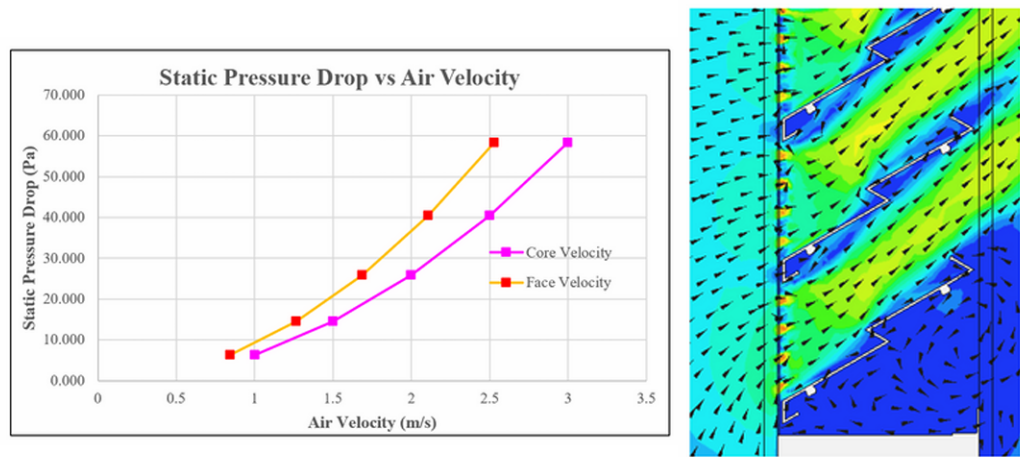
Performance Specs:

- 62% louvre x 51% sheet = 31.6% FOA
- 120mm Blade Pitch
- 2000mm Max Blade Span
- Conforms to incidental live load requirements

**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 0.304. Based on the discharge coefficient **Zeus HYDRA-SHIELD louvre achieves Class-3** 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:

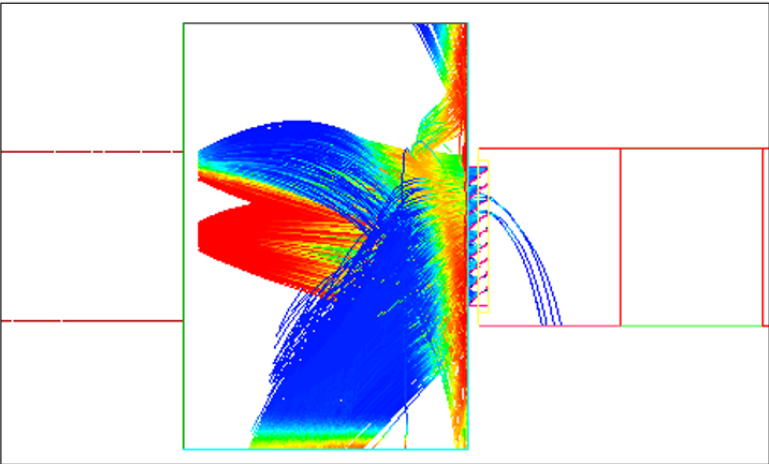
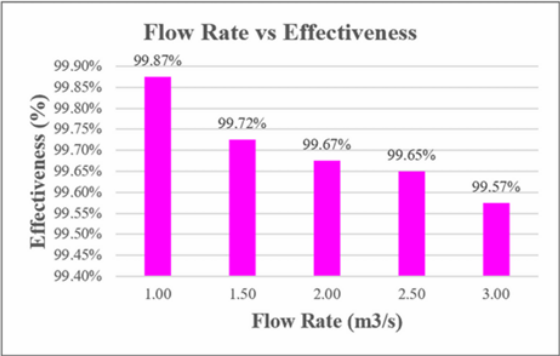
Air Velocity (m/s)	Static Pressure Drop (PA)
1	6.409
1.5	14.529
2	25.907
2.5	40.508
3	58.286

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

Rain Defense:

The effectiveness of the Zeus hydra-shield louvre in restricting the rain penetration for different ventilation flow rate is as shown in table below.

The Zeus louvre with perforated plate achieved an average effectiveness of 0.9970, qualifying it for a **Class A** rating.



Air Flow Rate	Effectiveness	Class
1	99.87%	A
1.5	99.72%	A
2	99.67%	A
2.5	99.65%	A
3	99.57%	A



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

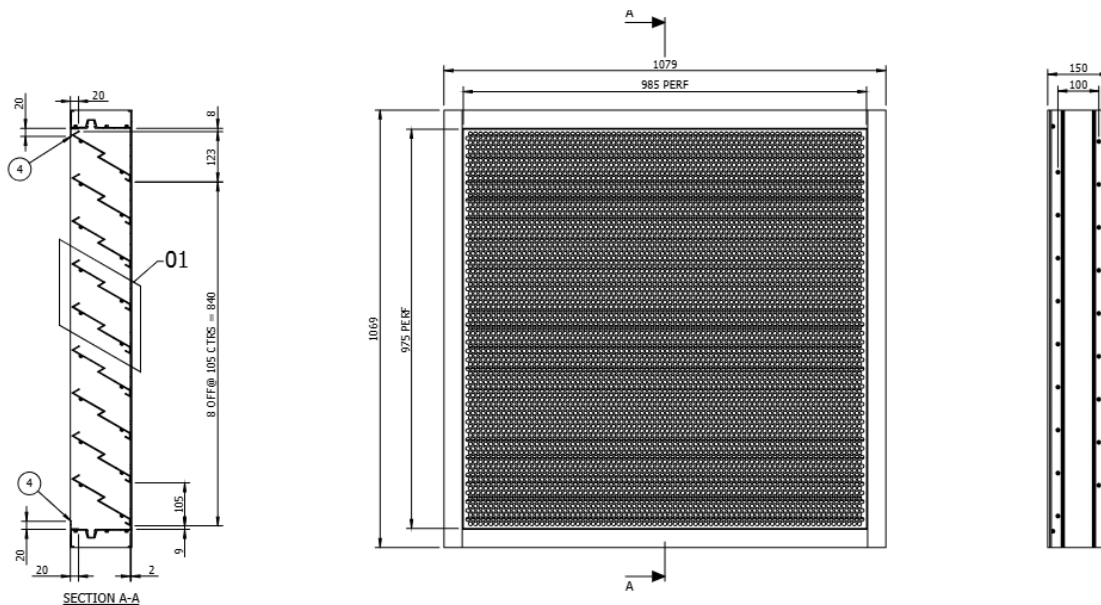
Custom finishes available upon request



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.

Accessories:

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



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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