



Nexus Series[®] Single, Two-stage & Drainable Ventilation Louvres



Tested to AS/NZS 4740:2000, the Nexus Series[®] louvre is available in Standard, drainable and 2 Stage louvre options achieving high performance ratings for both Aerodynamics and Rain defence, making it a good all-round industry standard louvre with an additional weather lip that makes it an ideal screening and ventilation louvre to mitigate the cascade effect.

Distinctive Features:

- Ideal for applications where there is greater weather exposure and air flow needs to be maintained at optimum levels.
- Suitable for large industrial louvre banks
- Incorporated Drainable Louvre System

Attention to Detail:

- 50% free open area
- Maximum blade span: 1500mm
- 83% free open area operable blade - fully open



ADDED WEATHER PROTECTION

Performance tested to AS/NZS 4740:2000



Rain Defence:

Standard: Class C | Two stage: Class A | Drainable: Class C



Aerodynamics:

Standard: Class 3 | Two stage: Class 4 | Drainable: Class 2

Note: Full CFD report available on request.

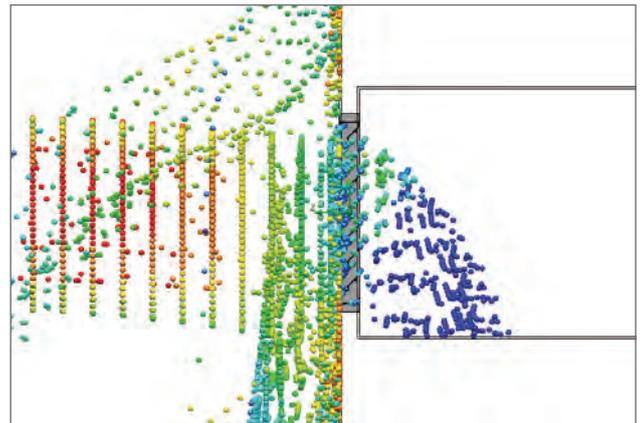
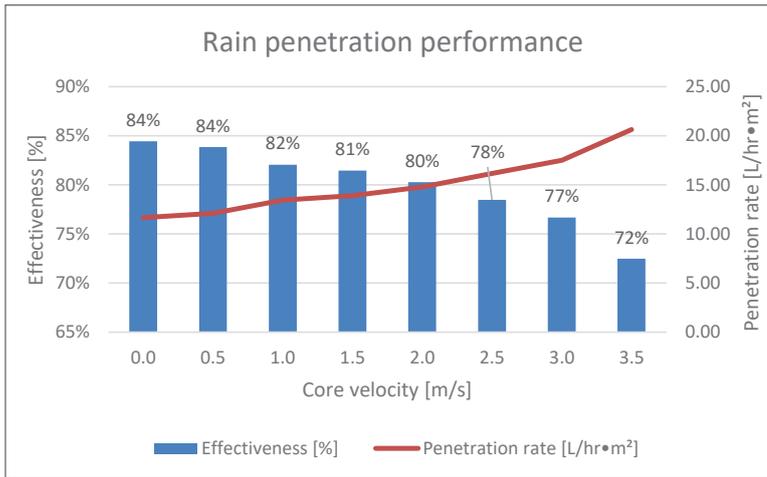


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PERFORMANCE DATA - SINGLE LOUVRE

Nexus Series® Standard achieves a Class C3 performance rating in accordance with AS4740:2000 making it well suited for screening applications where industry standard louvres are required. A key feature of this louvre is the additional weather lip which works to mitigate the cascade effect and ensure maximum rain defence.

This highly versatile louvre system can be custom designed to meet multiple performance requirements. Nexus Series® Standard can be utilized where maximum aerodynamics is required with the benefit of adding a second stage where extra rain defence is needed while maintaining the continuous external architectural aesthetic. Nexus Series can be fabricated into panels or installed as a continuous fixed louvre making it well suited to commercial and industrial applications including plant room screening, air intake and exhaust, penthouse louvres and louvre doors.

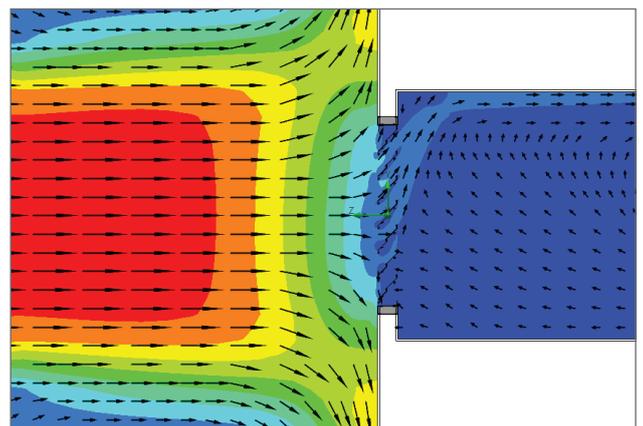
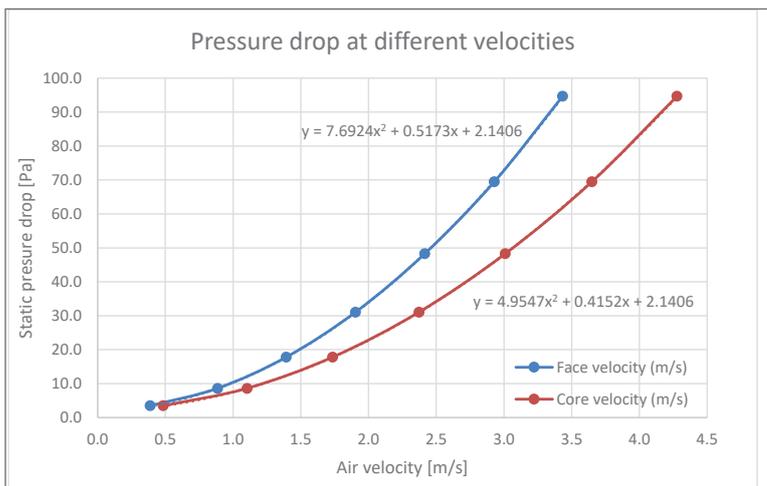


Rain penetration

Rain Defence tested to AS/NZS 4740:2000

Rain penetration analysis is tested to AS/NZS 4740:2000 and was conducted at a constant rain flow rate with ventilation rates ranging from 0.5m3/s to 3.5 m3/s. The results concluded that the ventilator has low rain defence performance and is summarized in Table 2.

The Nexus Series® Standard louvre's average rain penetration effectiveness at core velocities from 0 to 3.5m/s was 80% effective achieving a Class C rating.



Velocity vectors

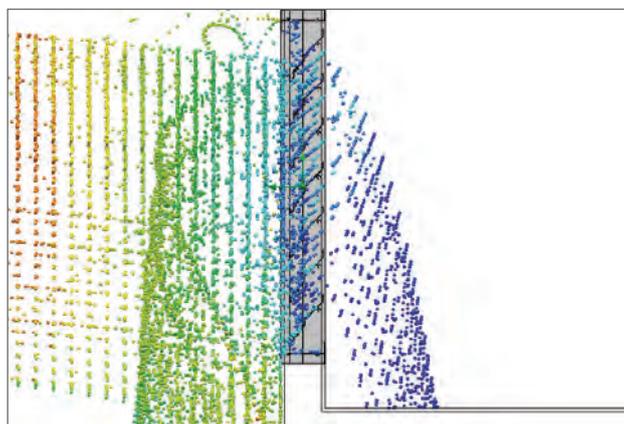
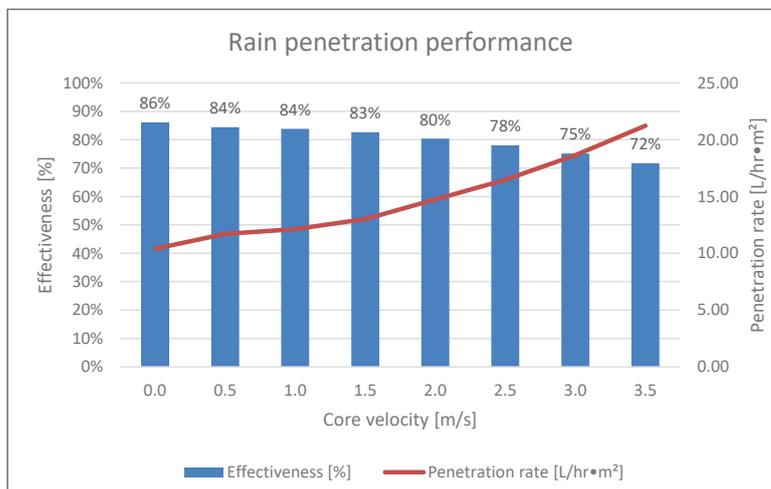
Aerodynamics tested to AS/NZS 4740:2000

This aerodynamics and discharge coefficient analysis was conducted to AS4740:2000 with the ventilation rate ranging from 0.4m/s to 3.4m/s. Table 2 summarizes the ventilator's aerodynamic performance at different face velocities.

The Nexus Series® Standard louvre performance resulted in an average discharge coefficient of 0.473 and the effective aerodynamic area was 0.25 with a Class 3 performance rating.

PERFORMANCE DATA - DRAINABLE LOUVRE

Nexus Series® Drainable louvre has the benefit of the extra weather lip to mitigate the cascade effect alongside an additional weather channel that provides rain catchment and water drainage for each blade individually to be discharged at the bottom of the louvre through the mullions. This feature provides excellent drainage to mitigate the cascade effect and ensures maximum rain defence.

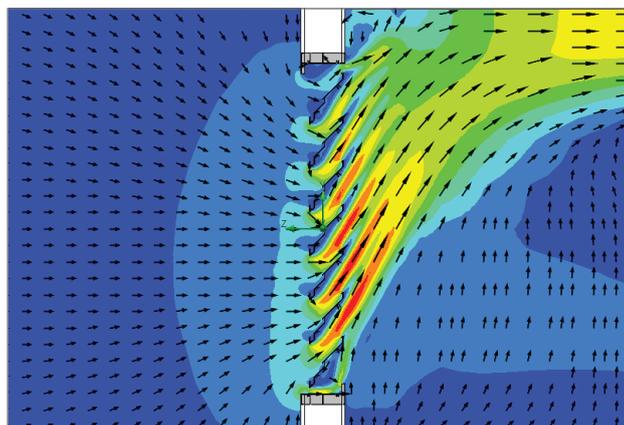
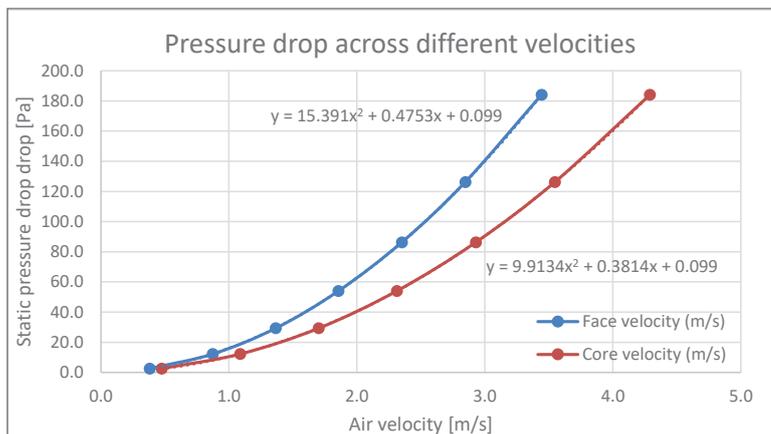


Rain penetration

Rain Defence tested to AS/NZS 4740:2000

Rain penetration analysis is tested to AS/NZS 4740:2000 and was conducted at a constant rain flow rate with ventilation rates ranging from 0.5m³/s to 3.5 m³/s. The results concluded that the ventilator has low rain defence performance and is summarized in Table 2.

The Nexus Series® Drainable louvre's average rain penetration effectiveness at core velocities from 0 to 3.5m/s was 80% effective achieving a Class C rating.



Velocity vectors

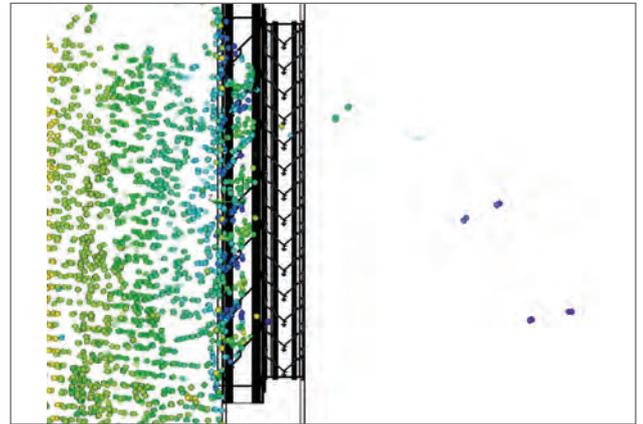
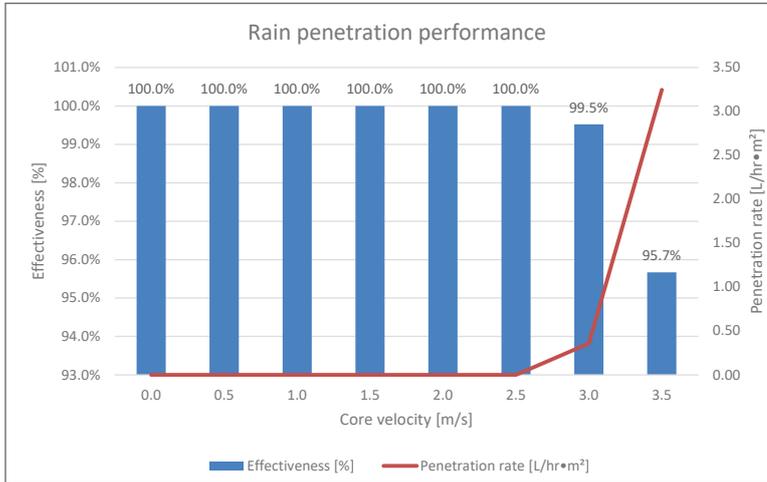
Aerodynamics tested to AS/NZS 4740:2000

This aerodynamics and discharge coefficient analysis was conducted to AS4740:2000 with the ventilation rate ranging from 0.4m/s to 3.4m/s. Table 2 summarizes the ventilator's aerodynamic performance at different face velocities.

The Nexus Series® Drainable louvre performance resulted in an average discharge coefficient of 0.606 with an Effective Aerodynamic Area of 0.50 while achieving a Class 2 performance rating.

PERFORMANCE DATA - TWO-STAGE LOUVRE

Nexus Series® Two-stage louvre Tested to AS/NZS 4740:2000 this louvre provides Class A4 performance. Designed to provide maximum resistance against wind driven rain, the Nexus Series® two-stage louvre is manufactured to withstand cyclone conditions. An excellent selection for commercial and industrial applications where maximum rain defence is crucial to the design.

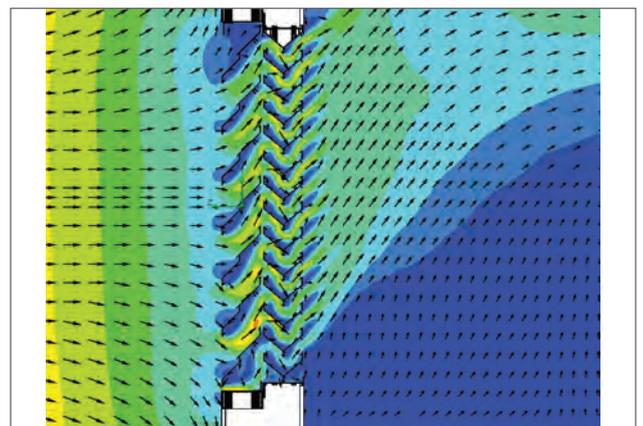
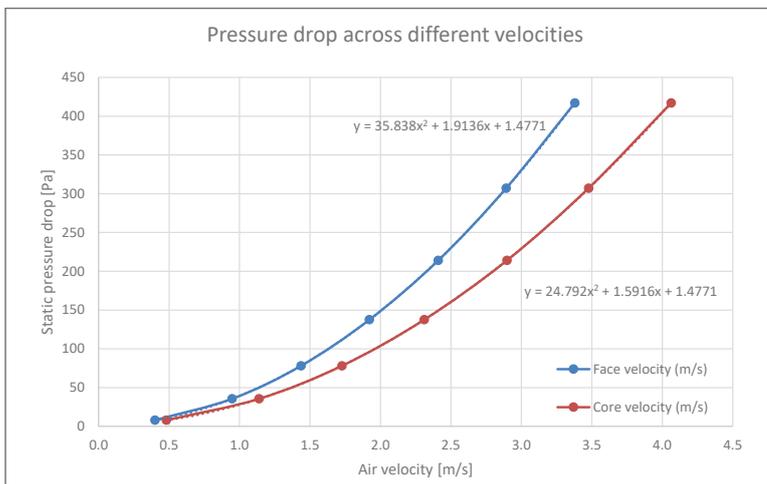


Rain penetration

Rain Defence tested to AS/NZS 4740:2000

Rain penetration analysis is tested to AS/NZS 4740:2000 and was conducted at a constant rain flow rate with ventilation rates ranging from 0.5m3/s to 3.5 m3/s. The results concluded that the ventilator has low rain defence performance and is summarized in Table 2.

The Nexus Series® Two Stage louvre's average rain penetration effectiveness at core velocities from 0 to 3.5m/s was 99% effective achieving a Class A rating.



Velocity vectors

Aerodynamics tested to AS/NZS 4740:2000

This aerodynamics and discharge coefficient analysis was conducted to AS/NZS 4740:2000 with the ventilation rate ranging from 0.4m/s to 3.4m/s. Table 2 summarizes the ventilator's aerodynamic performance at different face velocities.

The Nexus Series® Two Stage louvre performance resulted in an average discharge coefficient of 0.238 while achieving a Class 4 performance rating.

DRAFT SPECIFICATION

Louvres will be Louvreclad Nexus Series® standard louvre.

Performance tested to AS/NZS 4740:2000 the Nexus Series Standard Louvre achieves a Class C for rain defence and Class 3 for Aerodynamics at velocities from 0.5-1.4m/s and Class 2 up to 3.5m/s with 50% free open area.

Louvres will be Louvreclad Nexus Series® Drainable Louvre.

Performance tested to AS/NZS 4740:2000 the Nexus Series Drainable Louvre achieves a Class C for rain defence and Class 2 for Aerodynamics at velocities up to 3.5m/s with 50% free open area.

Louvres will be Louvreclad Nexus Series® Two Stage Louvre.

Performance tested to AS/NZS 4740:2000 the Nexus Series Two Stage achieves a Class A for rain defence and Class 4 for Aerodynamics at velocities from 0.5-3.5m/s with 50% free open area.

Base Material & Finish

Louvres will be manufactured in [powder coated/anodised] aluminium finish in [state colour]

Accessories

Louvre's will be fitted with [nominate options/accessories from the selection].

Operation Method [if applicable]

The operation method will be [Electric Motor/Manual winder/other - choose method]

Control System

Automated Control will be by [specify sensors and control system] [if required]

Installation and Mounting

Installation and mounting details will be designed in accordance with proprietary systems and recommendations as designed and manufactured by Louvreclad Pty. Ltd. Phone: 1300 165 678 Email: sales@louvreclad.com

Base Material Options

- Extruded aluminium

Finishes Available

Choose from the following range of finishes:

- complete powder coated range
- complete anodised range

Specialised coatings are also available on request.

Accessories

Bird/Vermin Mesh

Select from the following:

- galvanised
- galvanised powder coated
- stainless steel
- plastic
- perforated metal

Insect Mesh

Select from the following:

- aluminium
- fibreglass
- stainless steel
- perforated metal

Other Louvre Accessories

- Rain sensors
- Security screens and bars
- Volume control dampers
- Fire and smoke dampers
- Dust filters
- 2nd stage louvres (fixed only)

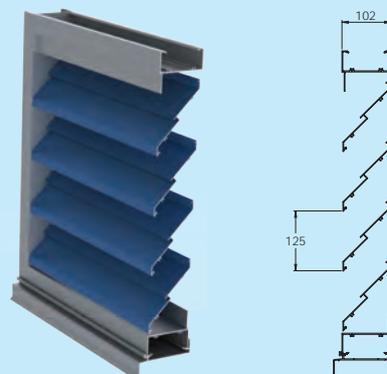
Operating Options

If specifying operable louvres please nominate the operating system from the following:

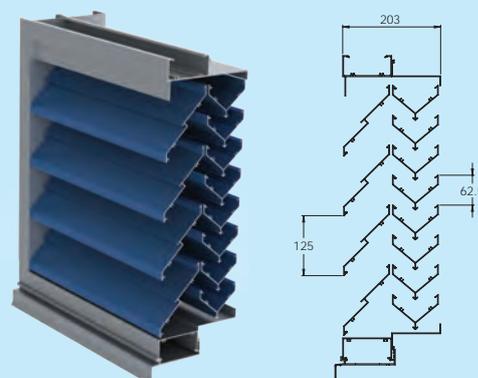
- remote winder control
- electric actuator

PROFILES

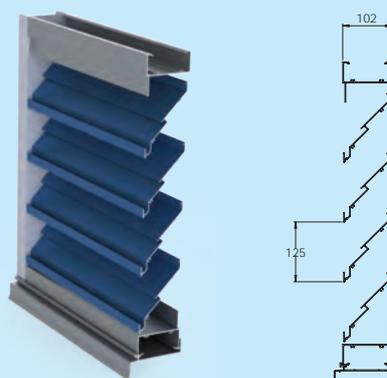
Nexus Series® standard louvre



Nexus Series® two-stage louvre



Nexus Series® drainable louvre





i WOULD YOU LIKE TO KNOW MORE?

If you have any questions about this product, or if you would like to speak to a member of our expert team about how we can tailor a solution for you, call: **1300 165 678** or visit: **louvreclad.com**