

Hudson Series® Acoustic Louvre

Louvreclad Hudson Series® offers acoustic louvres with varying depths for optimal noise reduction and rain defence. Options range from 100mm to 600mm deep, ideal for projects requiring effective noise control and ventilation.

Features

PERFORMANCE
Superior Noise Reduction

Acoustic louvres insulated with glass wool for effective noise control. Available in depths from 100mm to 600mm, tested to AS 1191:2002 and AS 4740:2025/2000 CFD standards.

AESTHETICS
Custom Solutions

Ideal for air-conditioning intakes, generators, and plant rooms. Engineered for incidental live load, offering optimal ventilation and weather protection while reducing noise transmission.

DESIGN
Versatile Design

Provides free open area from 17% to 47%. With aerodynamics ranging from Class 1 to Class 2. Available in multiple configurations for varied acoustic requirements.

Specifications

AUSTRALIAN STANDARDS
AS 1191:2002 &
AS 4740:2025/2000 CFD

ORIENTATION
Horizontal or
Vertical

MATERIAL
Colorbond® Steel, Aluminium

FINISH
Powder Coated,
Anodised, Colorbond®

ACCESSORIES
Bird/vermin mesh
Insect mesh

INSTALLATION
Installation and mounting details will be designed in accordance with proprietary systems and recommendations as designed and manufactured by Louvreclad.

Hudson Series® 100

100mm deep single-stage acoustic louvres





12 RW ACOUSTIC RATING	**Class 1** AERODYNAMICS	**0.83 CD** DISCHARGE COEFFICIENT	**0.095 m2** EFFECTIVE AERODYNAMIC AREA
17 % FREE OPEN AREA	**100 mm** DEPTH	**180 mm** PITCH	**2000 mm** MAX SPAN
17.2 kg/m2 WEIGHT	**Horizontal, Vertical** ORIENTATION		

Noise Reduction

Frequency Khz	125	250	500	1000	2000	4000
Insertion Loss	4	5	8	14	16	15
Noise Reduction	10	11	14	20	22	21

AS 4740:2000 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/2)	0	0.5	1	1.5	2	2.5	3	3.5
Effectiveness E (%)	100%	100%	100%	98%	95%	92%	87%	84%
Classification	Class A	Class A	Class A	Class B	Class B	Class C	Class C	Class C

The test results show consistent, dependable rain resistance across the assessed operating range, with performance closely tied to how the louvre is applied in practice. Factors such as louvre size, design airflow rates, and framing configuration all play a role in the final outcome.

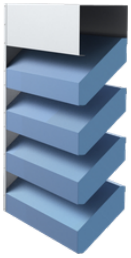
The rain resistance effectiveness ranges from Class A to Class C across core velocities of 0–3.5 m/s. When aligned with the right system design, this provides a reliable balance between airflow performance and weather protection—supporting real-world façade applications where both matter.

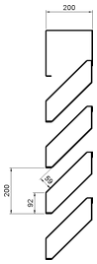
*AS 4740:2025 APPENDIX D – Determination of Discharge Coefficient

For pressure drop estimate, please refer to **Louvre Performance Calculator** and for project specific performance data, please contact **Louvreclad technical team**.

Hudson Series® 200

200mm deep single-stage acoustic louvres





13 RW ACOUSTIC RATING	**Class 1** AERODYNAMICS	**0.88 CD** DISCHARGE COEFFICIENT	**0.144 m2** EFFECTIVE AERODYNAMIC AREA
33 % FREE OPEN AREA	**200 mm** DEPTH	**200 mm** PITCH	**2000 mm** MAX SPAN
21.9 kg/m2 WEIGHT	**Horizontal, Vertical** ORIENTATION		

Noise Reduction

Frequency Khz	125	250	500	1000	2000	4000
Insertion Loss	4	6	10	14	15	13
Noise Reduction	10	12	16	20	21	19

AS 4740:2025 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/2)	0	0.5	1	1.5	2	2.5	3	3.5
Effectiveness E (%)	99%	98%	96%	85%	67%	46%	31%	15%
Classification	Class A	Class B	Class B	Class C	Class D	Class D	Class D	Class D

The test results show consistent, dependable rain resistance across the assessed operating range, with performance closely tied to how the louvre is applied in practice. Factors such as louvre size, design airflow rates, and framing configuration all play a role in the final outcome.

The rain resistance effectiveness ranges from Class A to Class D across core velocities of 0–3.5 m/s. When aligned with the right system design, this provides a reliable balance between airflow performance and weather protection—supporting real-world façade applications where both matter.

*AS 4740:2025 APPENDIX D – Determination of Discharge Coefficient

For pressure drop estimate, please refer to **Louvre Performance Calculator** and for project specific performance data, please contact **Louvreclad technical team**.

Hudson Series® 200 Chevron

200mm deep two-stage chevron acoustic louvres





18 RW ACOUSTIC RATING	**Class 2** AERODYNAMICS	**0.67 CD** DISCHARGE COEFFICIENT	**0.076 m2** EFFECTIVE AERODYNAMIC AREA
22 % FREE OPEN AREA	**200 mm** DEPTH	**180 mm** PITCH	**2500 mm** MAX SPAN
29.5 kg/m2 WEIGHT	**Horizontal, Vertical** ORIENTATION		

Noise Reduction

Frequency Khz	125	250	500	1000	2000	4000
Insertion Loss	5	6	15	20	28	28
Noise Reduction	11	12	21	26	34	34

AS 4740:2025 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/2)	0	0.5	1	1.5	2	2.5	3	3.5
Effectiveness E (%)	100%	100%	94%	57%	6%	6%	8%	12%
Classification	Class A	Class A	Class C	Class D	Class D	Class D	Class D	Class D

The test results show consistent, dependable rain resistance across the assessed operating range, with performance closely tied to how the louvre is applied in practice. Factors such as louvre size, design airflow rates, and framing configuration all play a role in the final outcome.

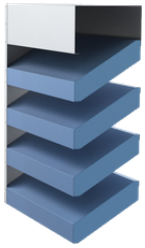
The rain resistance effectiveness ranges from Class A to Class D across core velocities of 0–3.5 m/s. When aligned with the right system design, this provides a reliable balance between airflow performance and weather protection—supporting real-world façade applications where both matter.

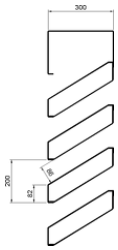
*AS 4740:2025 APPENDIX D – Determination of Discharge Coefficient

For pressure drop estimate, please refer to **Louvre Performance Calculator** and for project specific performance data, please contact **Louvreclad technical team**.

Hudson Series® 300

300mm deep single-stage acoustic louvres





18 RW ACOUSTIC RATING	**Class 1** AERODYNAMICS	**0.87 CD** DISCHARGE COEFFICIENT	**0.208 m2** EFFECTIVE AERODYNAMIC AREA
47 % FREE OPEN AREA	**300 mm** DEPTH	**200 mm** PITCH	**2500 mm** MAX SPAN
26.3 kg/m2 WEIGHT	**Horizontal, Vertical** ORIENTATION		

Noise Reduction

Frequency Khz	125	250	500	1000	2000	4000
Insertion Loss	4	6	14	20	27	28
Noise Reduction	10	12	20	26	33	34

AS 4740:2025 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/2)	0	0.5	1	1.5	2	2.5	3	3.5
Effectiveness E (%)	99%	98%	98%	96%	85%	68%	57%	48%
Classification	Class A	Class B	Class B	Class B	Class C	Class D	Class D	Class D

The test results show consistent, dependable rain resistance across the assessed operating range, with performance closely tied to how the louvre is applied in practice. Factors such as louvre size, design airflow rates, and framing configuration all play a role in the final outcome.

The rain resistance effectiveness ranges from Class A to Class D across core velocities of 0–3.5 m/s. When aligned with the right system design, this provides a reliable balance between airflow performance and weather protection—supporting real-world façade applications where both matter.

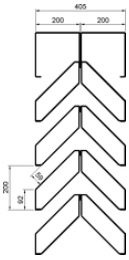
*AS 4740:2025 APPENDIX D – Determination of Discharge Coefficient

For pressure drop estimate, please refer to **Louvre Performance Calculator** and for project specific performance data, please contact **Louvreclad technical team**.

Hudson Series® 400 Chevron

400mm deep two-stage chevron acoustic louvres





21 RW ACOUSTIC RATING	**Class 1** AERODYNAMICS	**0.75 CD** DISCHARGE COEFFICIENT	**0.182 m2** EFFECTIVE AERODYNAMIC AREA
33 % FREE OPEN AREA	**400 mm** DEPTH	**200 mm** PITCH	**2000 mm** MAX SPAN
46.2 kg/m2 WEIGHT	**Horizontal, Vertical** ORIENTATION		

Noise Reduction

Frequency Khz	125	250	500	1000	2000	4000
Insertion Loss	4	11	18	23	27	25
Noise Reduction	10	17	24	29	33	31

AS 4740:2000 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/2)	0	0.5	1	1.5	2	2.5	3	3.5
Effectiveness E (%)	100%	100%	100%	100%	98%	96%	90%	83%
Classification	Class A	Class A	Class A	Class A	Class B	Class B	Class C	Class C

The test results show consistent, dependable rain resistance across the assessed operating range, with performance closely tied to how the louvre is applied in practice. Factors such as louvre size, design airflow rates, and framing configuration all play a role in the final outcome.

The rain resistance effectiveness ranges from Class A to Class C across core velocities of 0–3.5 m/s. When aligned with the right system design, this provides a reliable balance between airflow performance and weather protection—supporting real-world façade applications where both matter.

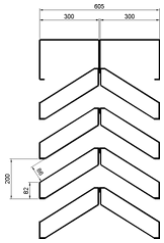
*AS 4740:2025 APPENDIX D – Determination of Discharge Coefficient

For pressure drop estimate, please refer to **Louvre Performance Calculator** and for project specific performance data, please contact **Louvreclad technical team**.

Hudson Series® 600

600mm deep two-stage chevron acoustic louvres





21 RW ACOUSTIC RATING	**Class 1** AERODYNAMICS	**0.77 CD** DISCHARGE COEFFICIENT	**0.182 m2** EFFECTIVE AERODYNAMIC AREA
47 % FREE OPEN AREA	**600 mm** DEPTH	**200 mm** PITCH	**2500 mm** MAX SPAN
54.9 kg/m2 WEIGHT	**Horizontal, Vertical** ORIENTATION		

Noise Reduction

Frequency Khz	125	250	500	1000	2000	4000
Insertion Loss	4	9	18	26	25	23
Noise Reduction	10	15	24	32	31	29

AS 4740:2025 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/2)	0	0.5	1	1.5	2	2.5	3	3.5
Effectiveness E (%)	100%	99%	96%	82%	74%	65%	53%	42%
Classification	Class A	Class A	Class B	Class C	Class D	Class D	Class D	Class C

The test results show a progressive reduction in rain resistance performance across the assessed operating range, with effectiveness closely linked to how the louvre system is applied in practice. Factors such as louvre size, design airflow rates, and framing configuration all contribute to the final outcome.

The rain resistance effectiveness ranges from Class A at low core velocities through to Class D at higher core velocities across 0–3.5 m/s. A noticeable transition in performance occurs from approximately 2 m/s, where effectiveness reduces into Class D classification. When integrated within an appropriate system design, the ventilator provides a balance between airflow performance and weather protection, supporting façade applications where both factors are critical.

*AS 4740:2025 Appendix D – Determination of Discharge Coefficient

For pressure drop estimate, please refer to **Louvre Performance Calculator** and for project specific performance data, please contact **Louvreclad technical team**.

Technical Data Disclaimer

- Indicative maximum span provided are based on generic permissible design wind pressure of 2kPa.
- Span values and product technical information provided are subjected to variance by project specific requirements & influence factors such building location, terrain category & local pressure effects. Span values provided are based on typical scenario where product specified are fixed at one end; simply supported at the other end and in either horizontal or vertical orientation.
- If the product specified is required to function as barrier for fall protection or as trafficable element, maximum span and pitch nominated may be reduced.
- Spans values provided could be influenced and reduced when used in dynamically sensitive wind environment.
- Hudson Series® 100 and Hudson Series® 400 Chevron: AS 4740:2000 compliance verified by CFD analysis only.
- Weights shown are based on Colorbond® steel only. Please contact us for aluminium louvres.

For project specific product selection or preliminary design & engineering consultation, please contact 1300 165 678 or sales@louvreclad.com to arrange or book a meeting.



Inspire with Quality

As leaders in the building envelope market, we are known for exceptional quality and lasting value. Our credibility, wealth of knowledge, and unmatched competence enable us to inspire exterior solutions that look good and perform better.



The MadeRight Guarantee

Following our proven process enables us to develop solutions we're proud to put our mark of quality to. We guarantee that all projects will be delivered in a timely manner, be on specification, engineered to Australian standards and finished to the highest quality.



Made to Perform

Louvreclad solutions are made to last and manufactured on-site using high-quality Australian aluminium and steel. As an organisation we are driven to get a thousand things right everyday to achieve our vision to be the face of Australian Building.

Our facades are not here to be average, they are here to perform – and so are we.

Speak to an expert

Reach out today to discuss your facade solution requirements; we would love to hear from you.