

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 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%. Class B to Class C rain defence with aerodynamics ranging from Class 1 to Class 3. Available in multiple configurations for varied acoustic requirements.

Specifications

AUSTRALIAN STANDARDS

AS 1191:2002 & AS 4740:2025

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

17 %
FREE OPEN AREA

19kg/m2
WEIGHT

Class 1
AERODYNAMICS

100 mm
DEPTH

Horizontal, Vertical
ORIENTATION

0.83 CD
DISCHARGE COEFFICIENT

180 mm
PITCH

0.095 m2
EFFECTIVE AERODYNAMIC AREA

2000 mm
MAX SPAN

Noise Reduction

Frequency KHz	125	250	500	1000	2000	4000
Insertion Loss	4	6	10	14	15	13
Noise Reduction	11	11	15	20	22	19

AS 4740:2000 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/s)	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.

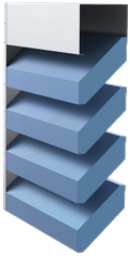
The rain resistance effectiveness ranges from Class A to Class C across core velocities of 0–3.5 m/s. When aligned with the right system design, this provides a reliable balance between airflow performance and weather protection—supporting real-world façade applications where both matter.

*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

33 %
FREE OPEN AREA

40kg/m2
WEIGHT

Class 1
AERODYNAMICS

200 mm
DEPTH

Horizontal, Vertical
ORIENTATION

0.88 CD
DISCHARGE COEFFICIENT

200 mm
PITCH

0.144 m2
EFFECTIVE AERODYNAMIC AREA

2000 mm
MAX SPAN

Noise Reduction

Frequency KHz	125	250	500	1000	2000	4000
Insertion Loss	4	6	10	14	15	13
Noise Reduction	11	11	15	20	22	19

AS 4740:2025 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/s)	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

22 %
FREE OPEN AREA

28kg/m2
WEIGHT

Class 2
AERODYNAMICS

200 mm
DEPTH

Horizontal, Vertical
ORIENTATION

0.67 CD
DISCHARGE COEFFICIENT

180 mm
PITCH

0.076 m2
EFFECTIVE AERODYNAMIC AREA

2500 mm
MAX SPAN

Noise Reduction

Frequency Khz	125	250	500	1000	2000	4000
Insertion Loss	5	6	15	20	28	28
Noise Reduction	11	11	21	26	34	33

AS 4740:2025 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/s)	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.

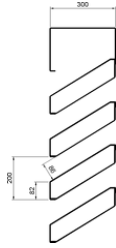
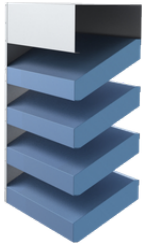
*AS 4740:2025 APPENDIX D – Determination of Discharge Coefficient

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

47 %
FREE OPEN AREA

57kg/m2
WEIGHT

Class 1
AERODYNAMICS

300 mm
DEPTH

Horizontal, Vertical
ORIENTATION

0.87 CD
DISCHARGE COEFFICIENT

200 mm
PITCH

0.208 m2
EFFECTIVE AERODYNAMIC AREA

2500 mm
MAX SPAN

Noise Reduction

Frequency KHz	125	250	500	1000	2000	4000
Insertion Loss	4	6	14	20	27	28
Noise Reduction	11	11	21	26	34	33

AS 4740:2025 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/s)	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.

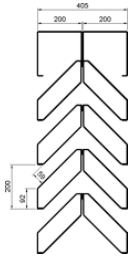
The rain resistance effectiveness ranges from Class A to Class D across core velocities of 0–3.5 m/s. When aligned with the right system design, this provides a reliable balance between airflow performance and weather protection—supporting real-world façade applications where both matter.

*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

33 %
FREE OPEN AREA

34kg/m2
WEIGHT

Class 1
AERODYNAMICS

400 mm
DEPTH

Horizontal, Vertical
ORIENTATION

0.75 CD
DISCHARGE COEFFICIENT

200 mm
PITCH

0.182 m2
EFFECTIVE AERODYNAMIC AREA

2000 mm
MAX SPAN

Noise Reduction

Frequency Khz	125	250	500	1000	2000	4000
Insertion Loss	4	11	18	23	27	25
Noise Reduction	11	16	25	29	33	30

AS 4740:2000 Rain Resistance

Rain penetration classification at each core velocity.

Ventilator Core Velocity (m/s)	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.

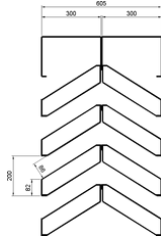
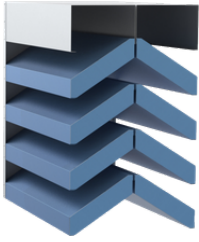
The rain resistance effectiveness ranges from Class A to Class C across core velocities of 0–3.5 m/s. When aligned with the right system design, this provides a reliable balance between airflow performance and weather protection—supporting real-world façade applications where both matter.

*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

0.77 CD
DISCHARGE COEFFICIENT

47 %
FREE OPEN AREA

600 mm
DEPTH

200 mm
PITCH

2500 mm
MAX SPAN

71kg/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	25	32	31	30

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

Technical Data Disclaimer

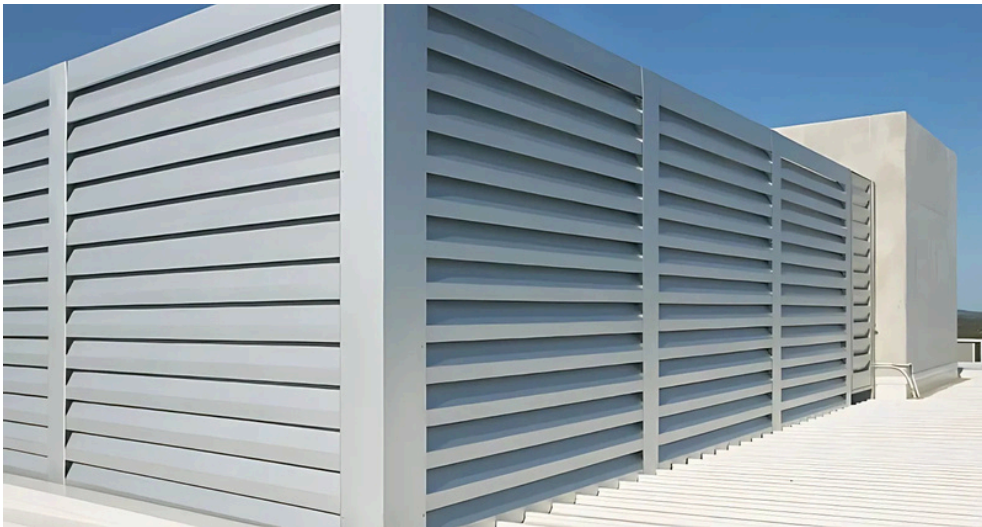
- Indicative maximum span provided are based on generic permissible design wind pressure of 2kPa.
- Span values and product technical information provided are subjected to variance by project specific requirements & influence factors such building location, terrain category & local pressure effects. 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.

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.



Made to Perform

1300 165 678

sales@louvreclad.com

louvreclad.com