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 4740:2000 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 4740:2000

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	**Class 3**	**Class C**	**17 %**
RW ACOUSTIC RATING	AERODYNAMICS	RAIN RESISTANCE	FREE OPEN AREA
100 mm	**180 mm**	**1500 mm**	**19kg/m2**
DEPTH	PITCH	MAX SPAN	WEIGHT
Horizontal, Vertical			
ORIENTATION			

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 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 results concluded the ventilator has fair rain resistance performance at the core velocities from 0-3.5m/s as summarised in the table above. The average rain penetration effectiveness for this model was 95% in Class C rating.

Hudson Series® 200

200mm deep single-stage acoustic louvres

13	**33 %**	**200 mm**	**200 mm**
RW ACOUSTIC RATING	FREE OPEN AREA	DEPTH	PITCH
1500 mm	**40kg/m2**	**Horizontal, Vertical**	
MAX SPAN	WEIGHT	ORIENTATION	

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

Hudson Series® 200 Chevron

200mm deep two-stage chevron acoustic louvres

18	**Class 2**	**0.51 CD**	**0.16 m2**
RW ACOUSTIC RATING	AERODYNAMICS	DISCHARGE COEFFICIENT	EFFECTIVE AERODYNAMIC AREA
Class C	**22 %**	**200 mm**	**180 mm**
RAIN RESISTANCE	FREE OPEN AREA	DEPTH	PITCH
2000 mm	**28kg/m2**	**Horizontal, Vertical**	
MAX SPAN	WEIGHT	ORIENTATION	

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 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%	97%	94%	90%	89%	87%
Classification	Class A	Class A	Class A	Class B	Class C	Class C	Class C	Class C

The results concluded the ventilator has fair rain resistance performance at the core velocities from 0-3.5m/s as summarised in the table above. The average rain penetration effectiveness for this model was 95% in Class C rating.

Hudson Series® 300

300mm deep single-stage acoustic louvres
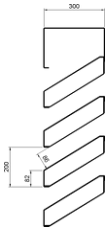
18	**Class 1**	**0.736 CD**	**0.31 m2**
RW ACOUSTIC RATING	AERODYNAMICS	DISCHARGE COEFFICIENT	EFFECTIVE AERODYNAMIC AREA
Class C	**91 %**	**47 %**	**300 mm**
RAIN RESISTANCE	EFFECTIVE RAIN RESISTANCE	FREE OPEN AREA	DEPTH
200 mm	**3000 mm**	**57kg/m2**	**Horizontal, Vertical**
PITCH	MAX SPAN	WEIGHT	ORIENTATION

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 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%	97%	96%	94%	89%	86%	84%	82%
Classification	Class A	Class B	Class B	Class C	Class C	Class C	Class C	Class C

The results concluded the ventilator has fair rain resistance performance at the core velocities from 0-3.5m/s as summarised in the table above. The average rain penetration effectiveness for this model was 91% in Class C rating.

Hudson Series® 400 Chevron

400mm deep two-stage chevron acoustic louvres
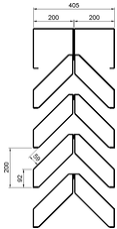
21	**Class 1**	**Class B**	**96 %**
RW ACOUSTIC RATING	AERODYNAMICS	RAIN RESISTANCE	EFFECTIVE RAIN RESISTANCE
33 %	**400 mm**	**200 mm**	**2000 mm**
FREE OPEN AREA	DEPTH	PITCH	MAX SPAN
34kg/m2	**Horizontal, Vertical**		
WEIGHT	ORIENTATION		

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 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 results concluded the ventilator has fair rain resistance performance at the core velocities from 0-3.5m/s as summarised in the table above. The average rain penetration effectiveness for this model was 96% in Class B rating.

Hudson Series® 600

600mm deep two-stage chevron acoustic louvres
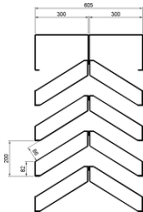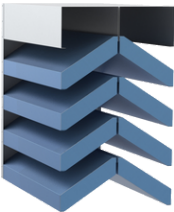
21	**47 %**	**600 mm**	**200 mm**
RW ACOUSTIC RATING	FREE OPEN AREA	DEPTH	PITCH
3000 mm	**71kg/m2**	**Horizontal, Vertical**	
MAX SPAN	WEIGHT	ORIENTATION	

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

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.

Note: For project specific airflow and pressure drop data, please utilise our **Performance Calculator**.

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.
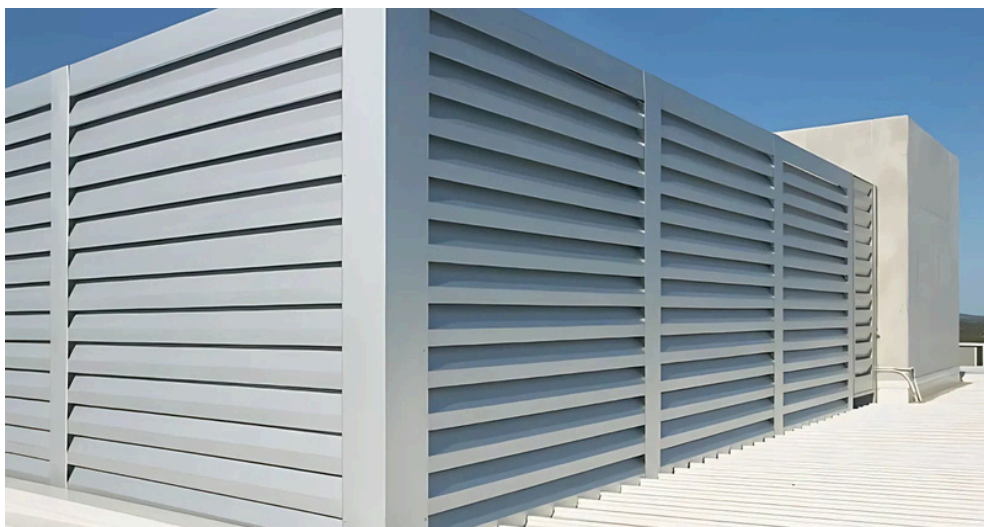
The MadeRight Guarantee

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**