

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

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.

Explore the profile options

Hudson Series® 100

100mm deep single-stage acoustic louvres





12

RW ACOUSTIC RATING

17 %

FREE OPEN AREA

2000 mm

MAX SPAN

Class 3

AERODYNAMICS

100 mm

DEPTH

19kg/m2

WEIGHT

Class C

RAIN RESISTANCE

180

PITCI

Horizontal, Vertical

ORIENTATION

Hudson Series® 200

200mm deep single-stage acoustic louvres





13

RW ACOUSTIC RATING

200

PITCH

Horizontal, Vertical

ORIENTATION

33 %

FREE OPEN AREA

2000 mm

MAX SPAN

200 mm

DEPTH

40kg/m2

WEIGHT

Hudson Series® 200 Chevron

200mm deep two-stage chevron acoustic louvres





18

RW ACOUSTIC RATING

0.16 m2

EFFECTIVE AERODYNAMIC AREA

200 mm

DEPTH

28kg/m2

WEIGHT

Class 2

AERODYNAMICS

Class C

RAIN RESISTANCE

180

PITCH

Horizontal, Vertical

ORIENTATION

0.51 CD

DISCHARGE COEFFICIENT

22 %

FREE OPEN AREA

2500 mm

MAX SPAN

Hudson Series® 300

300mm deep single-stage acoustic louvres





18

RW ACOUSTIC RATING

0.31 m2

EFFECTIVE AERODYNAMIC AREA

47 %

FREE OPEN AREA

2500 mm

MAX SPAN

Class 1

AERODYNAMICS

Class C

RAIN RESISTANCE

300 mm

DEPTH

57kg/m2

WEIGHT

0.736 CD

DISCHARGE COEFFICIENT

91 %

EFFECTIVE RAIN RESISTANCE

200

PITCH

Horizontal, Vertical

ORIENTATION

Hudson Series® 400 Chevron

400mm deep two-stage chevron acoustic louvres





21

RW ACOUSTIC RATING

96 %

EFFECTIVE RAIN RESISTANCE

200

PITCH

Horizontal, Vertical

ORIENTATION

Class 1

AERODYNAMICS

33 %

FREE OPEN AREA

2000 mm

MAX SPAN

Class B

RAIN RESISTANCE

400 mm

DEPTH

34kg/m2

WEIGHT

Hudson Series® 600 Chevron

600mm deep two-stage chevron acoustic louvres





21

RW ACOUSTIC RATING

200

PITCH

Horizontal, Vertical

ORIENTATION

47 %

FREE OPEN AREA

2500 mm

MAX SPAN

600 mm

DEPTH

71kg/m2

WEIGHT

AS 4740 Rain Resistance

Hudson Series® 100

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 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 Chevron

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%	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

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

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 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.

ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE

Test 4203D

	Insertion Loss						
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction				
100	3	4	9				
125	5		11				
160	4		10				
200	5	5	11				
250	5		11				
315	6		12				
400	6	8	12				
500	8		14				
630	9		15				
800	11	12	17				
1000	12		18				
1250	14		20				
1600	15	16	21				
2000	16		22				
2500	17		23				
3150	16	15	22				
4000	15		21				
5000	14		20				

Test Specimen:

Hudson 100 Series Acoustic Louvre

Australian Standards:

Measured according to AS 1191-2002

Test Specimen Dimensions:

1800 mm (H) x 1200 mm (W) x 100 mm (D)

Test Location:

Twin Reverberation Rooms National Acoustic Laboratories 126 Greville Street, Chatswood NSW

Instrumentation:

- Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015)
- Brüel and Kjær Cathode Follower type 2639
- Brüel and Kjær Cathode Follower type 2669
- Brüel and Kjær Microphone type 4144
- Brüel and Kjær Microphone type 4179
- Brüel and Kjær Sound Level Calibrator type 4231
- Yamaha Professional Sound Sources type S50



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Date of Test: Thursday, 20 August 2009

Project Number: 4203D

Test Enginer: Alex Li, BE(Mech) Hons

ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE

Test 4203B

Insertion Loss					
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction		
100	2	4	8		
125	5		11		
160	4		10		
200	5	6	11		
250	5		11		
315	7		13		
400	8	10	14		
500	9		15		
630	12		18		
800	13	14	19		
1000	14		20		
1250	14		20		
1600	15	15	21		
2000	16		22		
2500	15		21		
3150	14	13	20		
4000	13		19		
5000	12		18		

Test Specimen:

Hudson 200 Series Acoustic Louvre

Australian Standards:

Measured according to AS 1191-2002

Test Specimen Dimensions:

1800 mm (H) x 1200 mm (W) x 200 mm (D)

Test Location:

Twin Reverberation Rooms National Acoustic Laboratories 126 Greville Street, Chatswood NSW

Instrumentation:

- Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015)
- Brüel and Kjær Cathode Follower type 2639
- Brüel and Kjær Cathode Follower type 2669
- Brüel and Kjær Microphone type 4144
- Brüel and Kjær Microphone type 4179
- Brüel and Kjær Sound Level Calibrator type 4231
- Yamaha Professional Sound Sources type S50



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Date of Test: Thursday, 20 August 2009

Project Number: 4203B

Test Enginer: Alex Li, BE(Mech) Hons

ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE

Test 4203E

Insertion Loss					
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction		
100	4	5	10		
125	5		11		
160	4		10		
200	5	6	11		
250	5		11		
315	8		14		
400	12	15	18		
500	15		21		
630	18		24		
800	19	20	25		
1000	20		26		
1250	23		29		
1600	27	28	33		
2000	28		34		
2500	29		35		
3150	28	28	34		
4000	27		33		
5000	29		35		

Test Specimen:

Hudson 200 Chevron Series Acoustic Louvre

(2 x Hudson 100 Series Louvres back-to-back)

Australian Standards:

Measured according to AS 1191-2002

Test Specimen Dimensions:

1800 mm (H) x 1200 mm (W) x 200 mm (D)

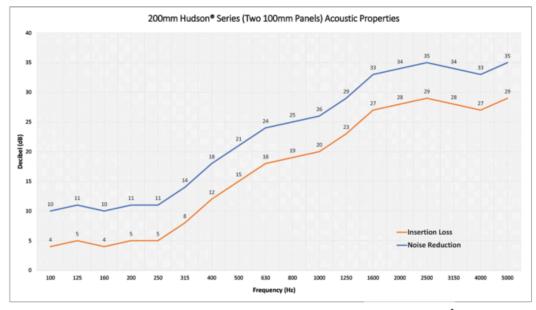
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Test Location:

Twin Reverberation Rooms
National Acoustic Laboratories
126 Greville Street, Chatswood NSW

Instrumentation:

- Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015)
- Brüel and Kjær Cathode Follower type 2639
- Brüel and Kjær Cathode Follower type 2669
- Brüel and Kjær Microphone type 4144
- Brüel and Kjær Microphone type 4179
- Brüel and Kjær Sound Level Calibrator type 4231
- Yamaha Professional Sound Sources type S50



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Test Enginer: Alex Li, BE(Mech) Hons

For and on behalf of Day Design Pty Ltd

Date of Test: Friday, 21 August 2009

Project Number: 4203E

ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE

Test 4203F

Insertion Loss					
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction		
100	3	4	9		
125	5		11		
160	4		10		
200	5	6	11		
250	5		11		
315	8		14		
400	12	14	18		
500	15		21		
630	17		23		
800	18	20	24		
1000	20		26		
1250	23		29		
1600	27	27	33		
2000	28		34		
2500	28		34		
3150	28	28	34		
4000	27		33		
5000	29		35		

Test Specimen:

Hudson 300 Series Acoustic Louvre

Australian Standards:

Measured according to AS 1191-2002

Test Specimen Dimensions:

1800 mm (H) x 1200 mm (W) x 300 mm (D)

Test Location:

Twin Reverberation Rooms National Acoustic Laboratories 126 Greville Street, Chatswood NSW

Instrumentation:

- Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015)
- Brüel and Kjær Cathode Follower type 2639
- Brüel and Kjær Cathode Follower type 2669
- Brüel and Kjær Microphone type 4144
- Brüel and Kjær Microphone type 4179
- Brüel and Kjær Sound Level Calibrator type 4231
- Yamaha Professional Sound Sources type S50



Date of Test: Friday, 21 August 2009

Project Number: 4203F

Test Enginer: Alex Li, BE(Mech) Hons

ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE

Test 4203C

Insertion Loss						
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction			
100	4	4	10			
125	5		11			
160	5		11			
200	9	11	15			
250	10		16			
315	14		20			
400	16	18	22			
500	19		25			
630	22		28			
800	23	23	29			
1000	23		29			
1250	24		30			
1600	26	27	32			
2000	27		33			
2500	27		33			
3150	25	25	31			
4000	24		30			
5000	25		31			

Test Specimen:

Hudson 400 Chevron Series Acoustic Louvre

(2 x Hudson 200 Series Louvres back-to-back

Australian Standards:

Measured according to AS 1191-2002

Test Specimen Dimensions:

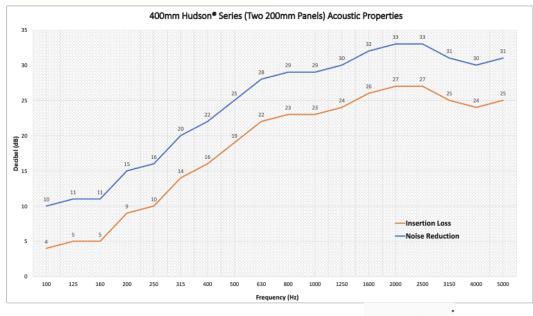
1800 mm (H) x 1200 mm (W) x 400 mm (D)

Test Location:

Twin Reverberation Rooms
National Acoustic Laboratories
126 Greville Street, Chatswood NSW

Instrumentation:

- Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015)
- Brüel and Kjær Cathode Follower type 2639
- Brüel and Kjær Cathode Follower type 2669
- Brüel and Kjær Microphone type 4144
- Brüel and Kjær Microphone type 4179
- Brüel and Kjær Sound Level Calibrator type 4231
- Yamaha Professional Sound Sources type S50



Date of Test: Thursday, 20 August 2009

Project Number: 4203C

Test Enginer: Alex Li, BE(Mech) Hons

ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE

Test 4203G

Insertion Loss					
Frequency - Hz	1/3 Octave	1/1 Octave	Noise Reduction		
100	2	4	8		
125	4		10		
160	5		11		
200	8	9	14		
250	9		15		
315	12		18		
400	15	18	21		
500	19		25		
630	23		29		
800	26	26	32		
1000	26		32		
1250	27		33		
1600	27	25	33		
2000	25		31		
2500	23		29		
3150	22	23	28		
4000	24		30		
5000	25		31		

Test Specimen:

Hudson 600 Chevron Series Acoustic Louvre

(2 x Hudson 300 Series Louvres back-to-back)

Australian Standards:

Measured according to AS 1191-2002

Test Specimen Dimensions:

1800 mm (H) x 1200 mm (W) x 600 mm (D)

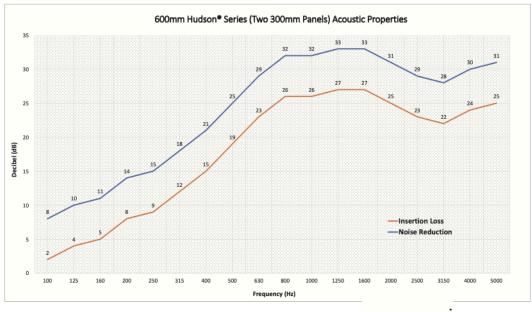
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Test Location:

Twin Reverberation Rooms National Acoustic Laboratories 126 Greville Street, Chatswood NSW

Instrumentation:

- Brüel and Kjær Two Channel Pulse Analyser (assembly 2825, 7521, 2 x 3015)
- Brüel and Kjær Cathode Follower type 2639
- Brüel and Kjær Cathode Follower type 2669
- Brüel and Kjær Microphone type 4144
- Brüel and Kjær Microphone type 4179
- Brüel and Kjær Sound Level Calibrator type 4231
- Yamaha Professional Sound Sources type S50



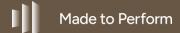
Date of Test: Friday, 21 August 2009

Project Number: 4203G

Test Enginer: Alex Li, BE(Mech) Hons

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

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.

