



Hudson Series® 200 Standard Louvre



Louvreclad's Hudson Series® acoustic louvre is the ideal solution when aesthetics are equally important as noise reduction, ventilation, and weather protection.

Distinctive Features:

- Enclosures for air-conditioning intakes and generators, pump rooms, and complete stand-alone plant rooms.
- Insulated with glass wool to reduce noise transmission.
- Multiple options available for selection to counteract specific acoustic frequency bandwidths.
- Hudson Series options include 100mm, 200mm, 300mm, 400mm and 600mm.

Attention to Detail:

- Tested to Australian Standards AS 1191-2002
- 33% free open area
- 200mm blade pitch
- Rw rating of 13



ACOUSTIC SOUND CONTROL



DAY DESIGN

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:

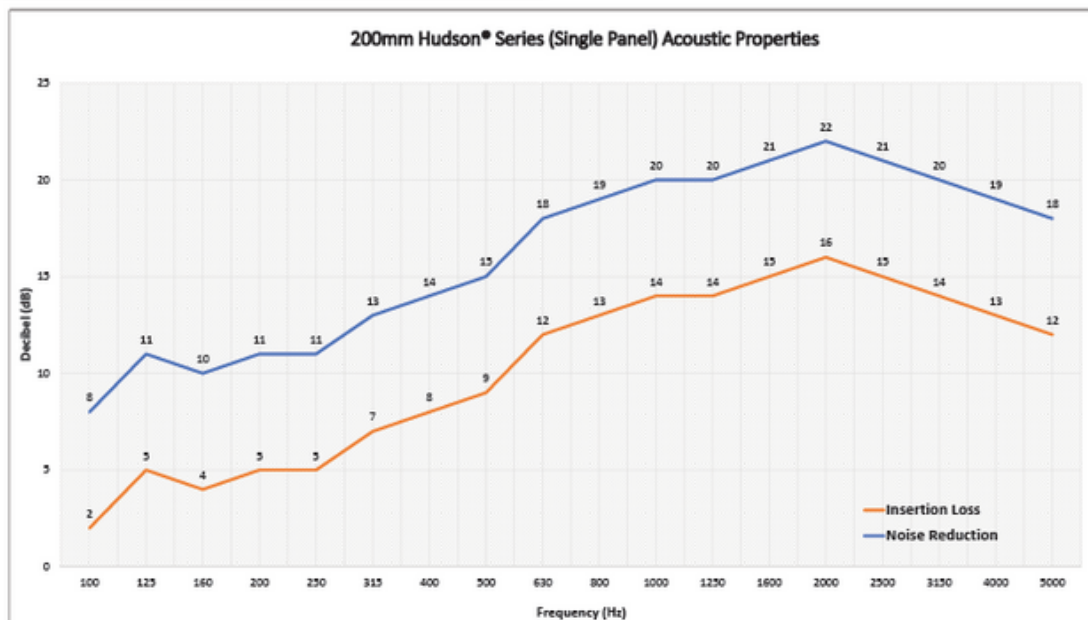
1800 mm (H) x 1200 mm (W) x 200 mm (D)

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



Date of Test: Thursday, 20 August 2009
Project Number: 4203B

Test Engineer: Alex Li, BE(Mech) Hons
For and on behalf of Day Design Pty Ltd

GENERAL NOTES

Noise Reduction [NR]: A value that represents the difference in sound pressure level between any two points along the path of sound propagation. The unit of measurement is decibels [dB].

Transmission Loss [TL]: A reduction of sound levels as a result of passage through an obstruction such as a wall, partition, or ductwork. These values are expressed with a unit of decibels [dB].

Insertion Loss [IL]: The reduction of noise level at a given location due to placement of a noise control device in the sound path between the sound source and that location. Usually rated in octave bands or 1/3-octave bands.

Far Field: [1] Part of the sound field where the sound wave is spreading spherically. [2] Sound decays at 6 dB for a doubling of the distance from the sound source.

DRAFT SPECIFICATION

Acoustic Louvres will be Louvreclad Hudson Series® 200mm with an Rw rating of 13, 33% free open area, and tested to Australian Standard AS1191-2002.

Base Material & Finish

Louvres will be manufactured in [select base material] finish in [select colour].

Accessories

Louvres will be fitted with [nominate options/accessories from the selection].

The sound insulation material will be Acoustigard 32.

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 & Finish Options

- ZINCALUME® steel
- COLORBOND® steel
- GALVABOND® steel
- Mill finish aluminium
- Powder coated aluminium
- Anodised aluminium

Specialised coatings are also available on request.

Accessories Options

Vermin Mesh

- aluminium
- stainless steel
- perforated metal

Insect Mesh

- aluminium
- fibreglass
- stainless steel

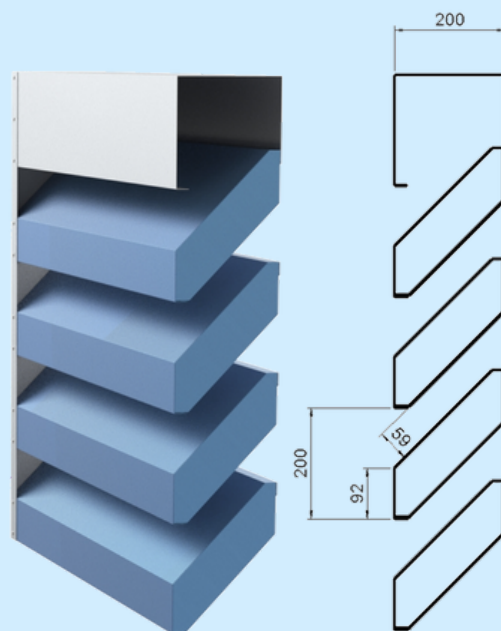
Other

- security screens
- dust filters

Sound Insulation

- Bradford™ Acoustigard® 32 [tested to non-combustible standards]

PROFILES



Hudson Series® 200 Standard Louvre



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: louvreciad.com