



Hudson Series[®] 600 Chevron Louvre



LOUVRES

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

Distinctive Features + Diverse Applications + Multitude of Benefits:

- 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
- Range from 100mm, 200mm, 300mm, 400mm and 600mm

Attention to Detail:

- Tested to Australian Standards AS1191-2002
- 47% free open area
- 200mm Blade Pitch
- R_w rating of 21



ACOUSTIC LOUVRE

 **LOUVRECLAD[®]**

Thinking outside for inside performance

| | | |
|-----------------------|---|---------------------|
| DAY DESIGN | PRESSURE DROP TEST CERTIFICATE | Test 4203G-P |
|-----------------------|---|---------------------|



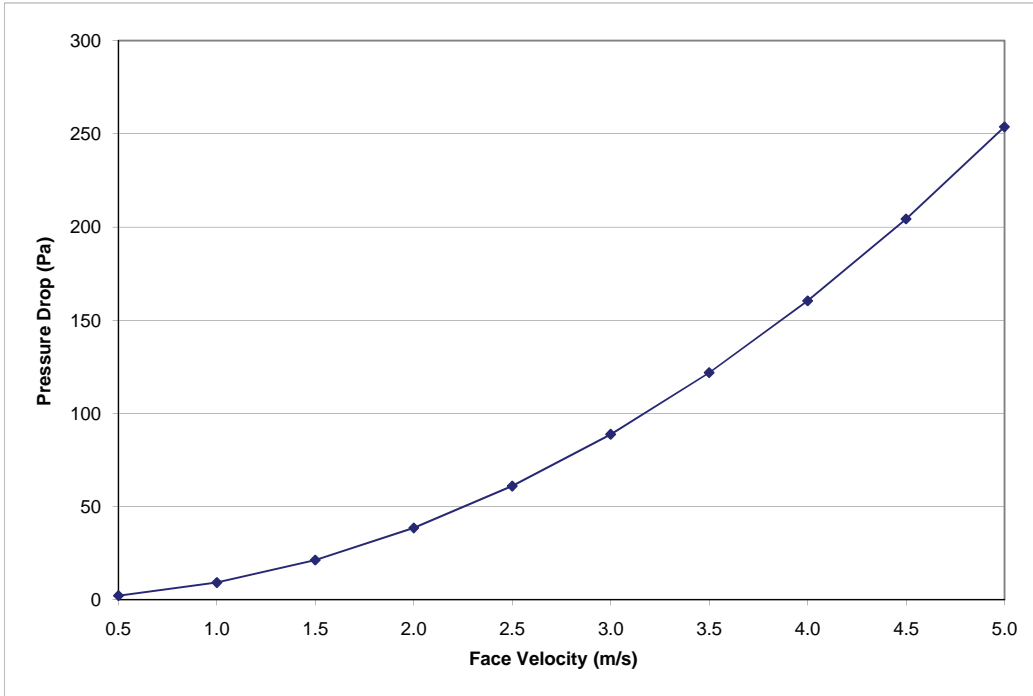
Test Specimen:
Hudson 600 Chevron Louvre

| Face Velocity (m/s) | Pressure Drop (Pa) |
|---------------------|--------------------|
| 0.5 | 2.2 |
| 1.0 | 9.3 |
| 1.5 | 21.4 |
| 2.0 | 38.6 |
| 2.5 | 61.0 |
| 3.0 | 88.8 |
| 3.5 | 121.9 |
| 4.0 | 160.3 |
| 4.5 | 204.3 |
| 5.0 | 253.6 |

Test Specimen Dimensions:
1800 mm (H) x 1200 mm (W) x 600 mm (D)

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

Instrumentation:
- Vaisala Digital Barometer (Type PTB201AD)
- Kestrel Anemometer (Model K2000)



Date of Test: Friday, 21 August 2009
Project Number: 4203G-P

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

DAY DESIGN

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 | | 21 |
| 500 | 19 | 18 | 25 |
| 630 | 23 | | 29 |
| 800 | 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:

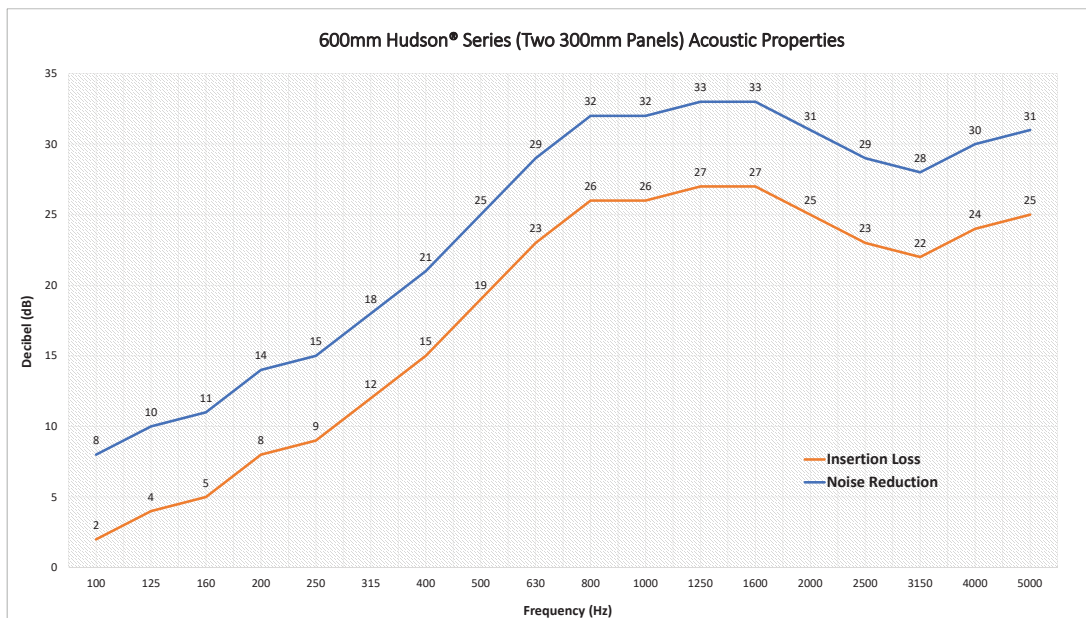
1800 mm (H) x 1200 mm (W) x 600 mm (D)

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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GENERAL NOTES

NR (Noise Reduction) 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) is 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[®] 600mm with an R_w rating of 21, 47% free open area (F.O.A) 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].

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 Options

Zincalume[®] | Colorbond[®] | Galvabond[®]

Mill finish Aluminium, Powdercoated Aluminium, Anodised Aluminium, Stainless Steel

Specialised coatings are also available on request.

Accessories

Bird/Vermin Mesh

Select from the following:

- galvanised
- galvanised powder coated
- stainless steel
- plastic
- perforated metal
- expanded metal

Insect Mesh

Select from the following:

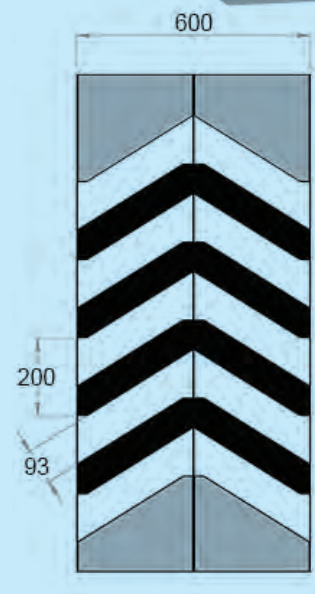
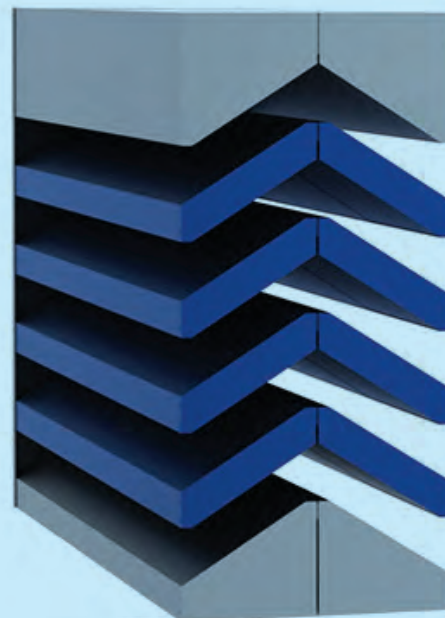
- aluminium
- fibreglass
- stainless steel
- perforated metal

Other Louvre Accessories

- Security screens and bars
- Fire and smoke dampers
- Volume control dampers
- Dust filters

PROFILES

Hudson Series[®] 600 Louvre



F.O.A -> Free Open Area





i 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: louvreclad.com