

Louvreclad
architectural exteriors

Glacier Series® Operable Glass Louvres

Louvreclad Glacier Series® operable louvres offer customisable airflow and rain defence with electric or manual operation. High-quality aluminium design ensures control, comfort, and energy efficiency. Ideal for sports halls, gyms, and warehouses.

Features

PERFORMANCE

Customisable Airflow & Rain Defence

Operable louvres provide 83% free open area when fully open. Electric or manual operation allows precise control over airflow and rain defence.

AESTHETICS

Versatile Blade Options

High-quality aluminium design with various cladding options, including glass, polycarbonate, and metal, to meet thermal, acoustic, and visual requirements. Suitable for commercial finishes.

DESIGN

Optimal Comfort & Efficiency

Customisable pitch and opening angles connected to BMS and weather sensors. Ideal for sports halls, gyms, and warehouses, ensuring energy efficiency and comfort.

Specifications

ORIENTATION

Horizontal

OPERATION

Electric motor/manual winder/pneumaticmotor/other

MATERIAL

Extruded Aluminium, Glass or custom substrate to suit performance requirements

FINISH

Powder coat or anodised

ACCESSORIES

Automated Control

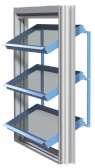
INSTALLATION

Installation and mounting details will be designed in accordance with proprietary systems and recommendations as designed and manufactured by Louvreclad.

Explore the profile options

Glacier Series®

Operable glass louvres for controlled airflow





83 % FREE OPEN AREA	102 mm DEPTH	300-400 mm PITCH
1800-2000 mm MAX SPAN	Horizontal ORIENTATION	

Technical Data Disclaimer

- **Application:** Glacier Series® is an operable aluminium louvre system specifically designed and engineered for industrial and commercial wall ventilation applications. While frequently specified for school gymnasiums, it is not designed as a ball impact-resistant system.
- **Ball Protection:** For gymnasium and sports court applications, Louvreclad recommends the installation of a suitably designed ball screen or court net behind the louvre system to protect against impact damage. Ember mesh may also be used where required by the project or applicable building regulations.
- **Operation & Controls:** Glacier Series® is typically supplied with pre-fitted low-voltage electric linear actuators complete with approximately 500 mm electrical tails for final wiring by others. Compatible power supplies, controllers and wiring diagrams can be supplied to facilitate installation and system integration.
- **Manual Operation:** Where the rear of the louvre is safely accessible, a manual operating mechanism is available as an alternative to electric actuation.
- **Performance:** Glacier Series® is an industrial natural ventilator and is not tested or classified to AS2047 – AS 4740 Natural Ventilators – Classification and Performance.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.victor.nichestudio.biz to arrange or book a meeting.

DAY DESIGN	ACOUSTIC LOUVRE INSERTION LOSS TEST CERTIFICATE	Test 4203A

TESTED & ACOUSTIC CERTIFIED

Frequency - Hz	Insertion Loss - dB	
	1/3 Octave	1/1 Octave
100	12	
125	14	14
160	16	
200	18	
250	16	18
315	19	
400	19	
500	21	21
630	22	
800	22	
1000	22	22
1250	22	
1600	20	
2000	18	19
2500	18	
3150	19	
4000	21	20
5000	22	

Test Specimen:

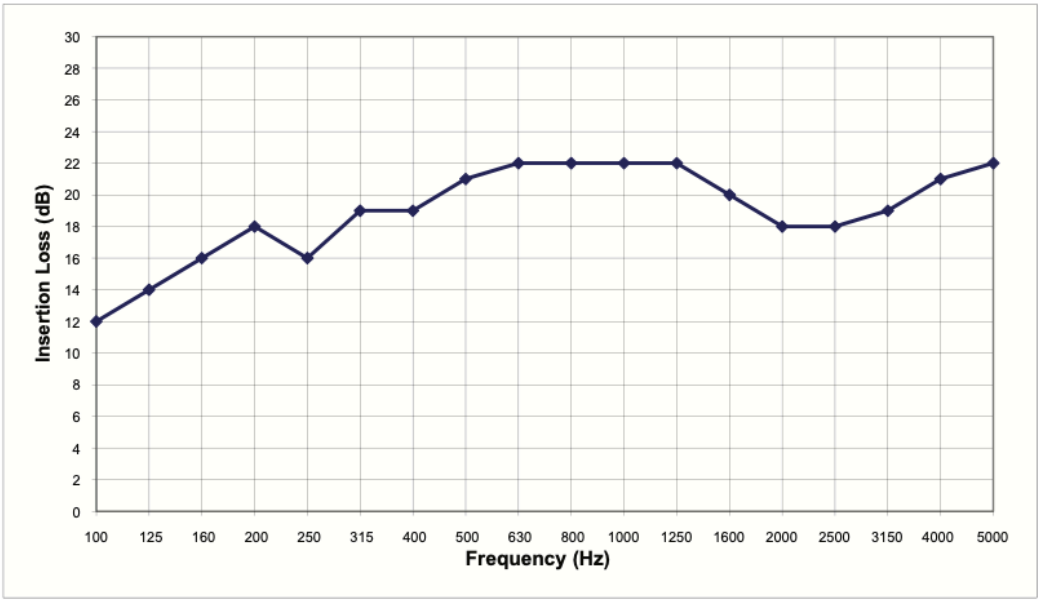
Glacier Series
Glass Blade Operable Louvre
(6.38 mm thick laminated glass - closed configuration)

Australian Standards:
Measured according to AS 1191-2002

Test Specimen Dimensions:
1800 mm (H) x 1200 mm (W) x 45 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: 4203A

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

DAY DESIGN	PRESSURE DROP TEST CERTIFICATE	Test 4203A-P

Test Specimen:

Glacier Series Louvre

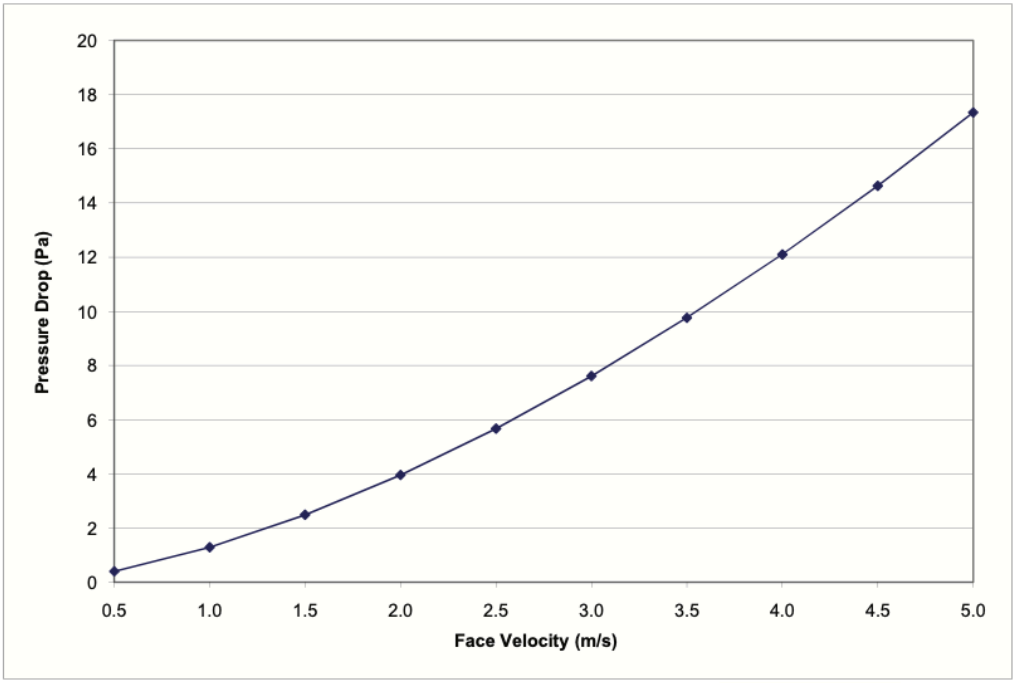
Face Velocity (m/s)	Pressure Drop (Pa)
0.5	0.4
1.0	1.3
1.5	2.5
2.0	4.0
2.5	5.7
3.0	7.6
3.5	9.8
4.0	12.1
4.5	14.6
5.0	17.3

Test Specimen Dimensions:
1800 mm (H) x 1200 mm (W) x 350 mm (D)

Specimen Specifications:
82% Open Area per Module
Blades @ 328 mm Pitch
Throat Height @ 268 mm

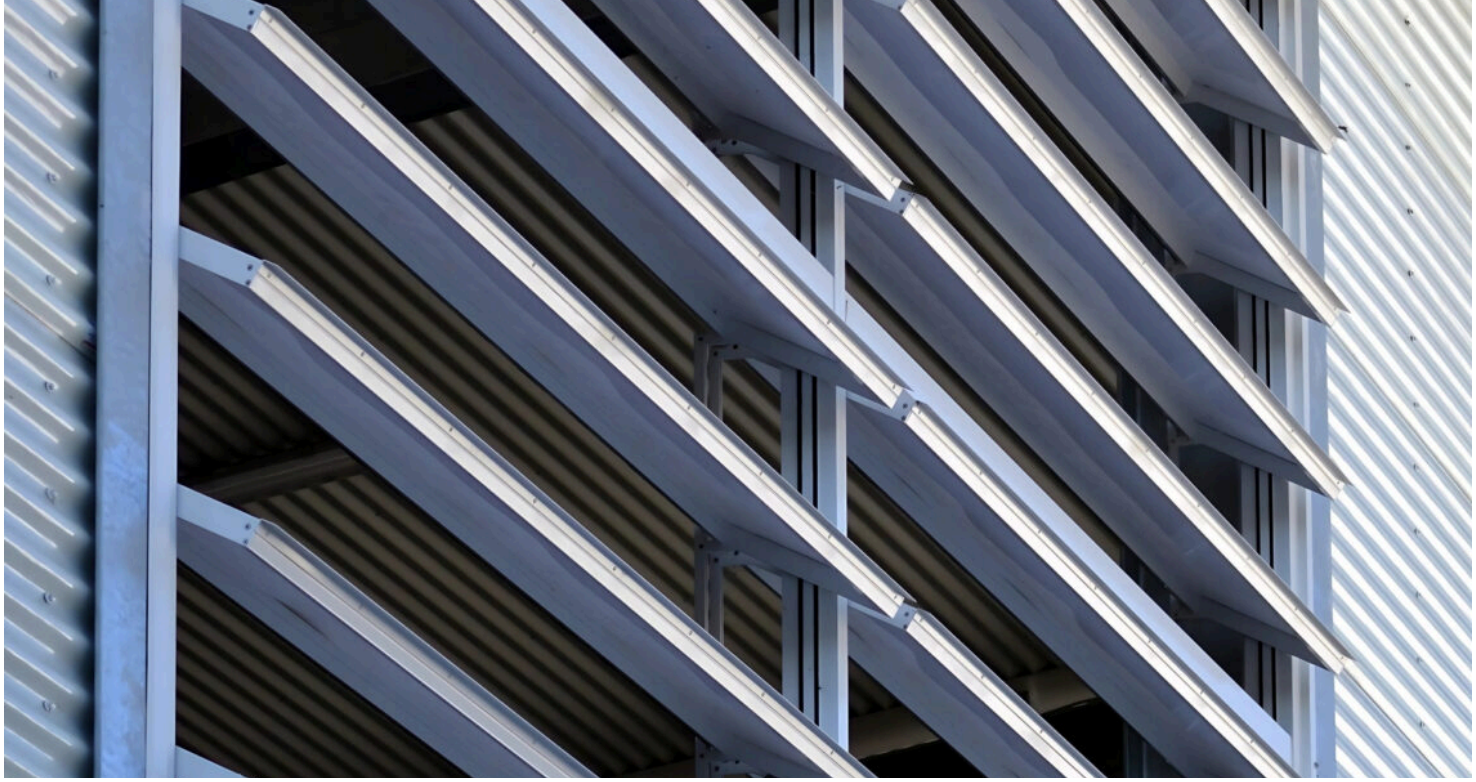
Test Location:
Twin Reverberation Rooms
National Acoustic Laboratories
126 Greville Street, Chatswood NSW

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



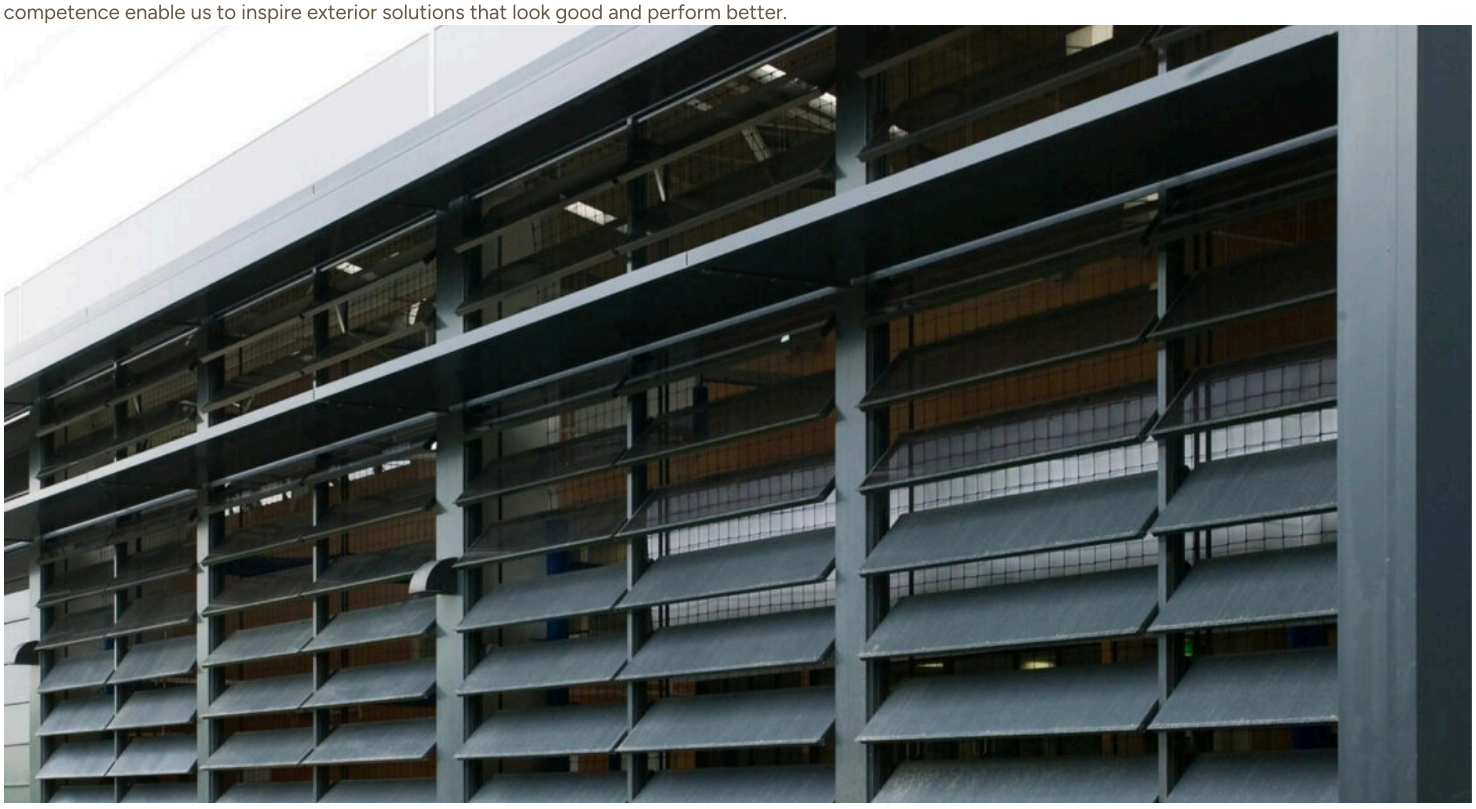
Date of Test: Wednesday, 19 August 2009
Project Number: 4203A-P

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



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.