Ventüer VL-100CM 100mm Screening Louvre

Product Technical Statement: 109575

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100mm screening louvre system designed specifically for plant screens and visual barriers.

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Level of assurance needed to demonstrate NZ Building Code Compliance

LOW

Supporting documentation should include self-assessment and technical information by manufacturer

Ventüer confirms that this minimum level of assurance has been met or exceeded by the following:
Ventuer Limited
Project Specific PS1

masterspec partner

Technical Statement

Product Description

The Ventüer VL-100CM is designed primarily as a screening louvre and provides a low pressure drop allowing maximum airflow with minimum mechanical assistance. It has very low rain defence effectiveness and should not be used where protection from wind driven rain is required.

The VL-100CM louvre blades are supported on a concealed mullion system, and bordered by a 150mm perimeter frame. It shares the same support frame as the high-performing VL-3SD and VL-2SD systems, and can be combined with these products to provide cost saving configurations. The standard frame can be fixed in to a wide range of primary support structures and cladding types, including profiled metal cladding, fibre cement sheet, window joinery systems and others.

It can be fitted with a sealed solid backing panel to provide a water-tight rainscreen in areas where the louvres are "inactive", or not required for air flow. It can also be fitted with bird or insect mesh.

Scope of use

Designed for use as a screening louvre, as a decorative facade element or as a visual screen around mechanical plant enclosures. Constructed from extruded aluminium and suitable for salt-spray zones and other corrosive environments when powdercoated appropriately. Typically fixed directly to primary building structure such as walls or columns. Not suitable for use as a weather louvre due to its low resistance to wind driven rain.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B1 Structure:** Performance B1.3.3(a), B1.3.3(f), B1.3.3(h)
- **Clause E2 External moisture:** Performance E2.3.2
- **Clause G4 Ventilation:** Performance G4.3.1

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

- When sized correctly, the VL-100CM louvre system complies with the requirements for natural ventilation of buildings under the New Zealand Building Code clause G4

- When installed in accordance with Ventüer technical literature, shop drawings and site-specific engineering the VL-100CM louvre system complies with the requirements for structure under the New Zealand Building Code clause B1

- When installed in accordance with Ventüer technical literature and shop drawings the VL-100CM louvre system complies with the requirements around external moisture as outline in New Zealand Building Code clause E2

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:

Ventuer Limited
Project Specific PS1

Use in Service History

The VL-100CM louvre system was developed in New Zealand in 2016. Since that time it has been used extensively on a wide range of projects including storage facilities, industrial buildings and education facilities throughout New Zealand.

Company Contact Details

Company:	Ventuer Limited
Physical Address:	Taharoto Road Takapuna Auckland 0622
Postal Address:	Taharoto Road Takapuna Auckland 0622
Telephone:	64 09 9733616
Email:	sales@ventuer.co.nz
Website:	www.ventuer.co.nz

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Refer to the Ventüer website for detailed case studies - https://ventuer.co.nz/case-studies-ventilation/

Product Criteria

Design requirements

- Extruded aluminium construction, available in any standard powdercoat colour or anodising
- No size limitations (the clip-fixed front blade profile provides a continuous appearance)
- Excellent airflow characteristics, allowing maximum ventilation to mechanical equipment
- Independently tested and certified to BS/EN:13031
- Cost effective
- The VL-100CM should not be used as a weather louvre due to its low resistance to wind driven rain.

Installation requirements

Installation requirements for the VL-100CM louvre system vary dependent on the site wind loads, louvre panel sizes, cladding type and primary structure detailing. Ventüer provides full shop drawings for all installations which show sequencing, fixing type and sizing, flashing requirements and sealant details. Installers should make themselves fully conversant with these shop drawings prior to installation commencing.

Maintenance requirements

Refer to Ventüer Operation & Maintenance Manual

Warrantees

Refer to Ventüer Warranty Document

Company Product Information

Environmental

All Ventüer ventilation louvre systems are fabricated from aluminium which is extruded locally here in New Zealand. The majority of this aluminium is "green aluminium", meaning that the electricity for smelting is supplied from renewable energy sources (such as is the case with Tiwai Point, which relies on hydro-power). Any waste generated during manufacture is fully recycled, as can be any louvres at the end of their useful life. All powdercoating of louvre components is carried out by certified applicators and the use of chomate treatment processes is strictly avoided.

Effective use of passive ventilation devices such as louvre systems can significantly reduce the energy consumption of a building, reducing both its carbon footprint and whole of life cost.

Relationships

BSRIA Report 59678/5

Date last validated: **08 October 2021**

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