



## Product Technical Statement

### Ventüer HAHN-S9 Single Glazed Louvre Window



#### Product Description

With single-glazed overlapping louvre blades and slim side glass fixings, the Ventüer HAHN-S9 louvre window has been developed for optimized, controlled ventilation. It combines good weather tightness with attractive architectural effect when insulated glazing is not necessary.

#### Scope of use

Designed for use as a natural ventilation device or automated smoke ventilator. Single glazed blades available in thicknesses between 8 - 12mm which are able to span up to 1600mm wide without intermediate mullions (wind zone dependent). Constructed with an extruded aluminium frame and suitable for salt-spray zones and other corrosive environments when powdercoated appropriately. Compatible with all common structure and cladding types, including precast concrete, metal cladding, fibre cement sheet and unitised curtainwall systems. Available with optional frame profile which integrates directly with standard window joinery, being set within the glazing pocket and being rubbered in. Multiple control options available, including manual lever handles, electric actuators and pneumatic systems. Certified for use as a smoke ventilation device as part of the building fire safety system.

#### 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 HAHN-S9 glass 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 HAHN-S9 glass louvre system complies with the requirements for structure under the New Zealand Building Code clause B1
- The HAHN-S9 glass louvre is certified for use as a natural smoke ventilation device in accordance with EN 12101-2

#### Supporting Evidence

The product has and can make available the following additional evidence to support the above statements: Contact Ventüer for further details.

#### Use in Service History

The HAHN series of glass louvres have been supplied to the New Zealand market via Ventüer since 2019. Prior to this period they were distributed by another reseller, and there are multiple projects through New Zealand featuring the HAHN systems.

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

#### Company Contact Details

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#### Product Criteria

##### Design Requirements

- Single glazed louvre blades
- Various glass thicknesses available, between 8 - 12mm, to suit project windloads
- Glass blades will clear span up to 1600mm wide without intermediate mullions (wind zone dependent)
- Certified to EN:12101-2 for use as a smoke ventilation device
- Compatible with all common structure and cladding types, including precast concrete, metal cladding, fibre cement sheet, window joinery and unitised curtainwall systems
- Extruded aluminium frame, available in standard RAL powdercoat colours or anodising
- Multiple control options, including manual lever handle, electric actuators and pneumatic systems
- Anti-finger entrapment sensors fitted to electric actuators as standard
- Due to being single glazed, the HAHN-S9 louvres do not provide a high level of thermal or acoustic insulation – If increased thermal or acoustic properties are required, consider using the HAHN-S9iV (double glazed) or HAHN-S9iVT (thermally broken) products instead.

##### Installation requirements

Installation requirements for the HAHN-S9 glass 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

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

