



Product Technical Statement

Ventüer Z-Series Louvred Roof Ventilator



Product Description

The Z-Series natural louvred ventilator has been designed for use as both a smoke extraction and natural ventilation device. With options of pneumatic or electrical controls, it ensures rapid extraction of smoke and hot gases during a fire. Available with BMS integration, purpose built control panels or fail-safe fusible links, the Z-Series roof mounted ventilators are suitable for use on most industrial buildings. Purpose engineered control panels incorporate necessary controls relative to the types of operation required, providing remote accessibility reducing occupation health and safety risks normally associated with elevated ventilation control.

Scope of use

Designed for use as a roof mounted natural ventilation device or automated smoke ventilator. Throat sizes available between 1040mm x 895mm and 2870mm x 1395mm. Typically constructed from aluminium (steel available upon request) and suitable for salt-spray zones and other corrosive environments when powdercoated appropriately. Multiple control options available, including 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 Z-Series ventilator 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 Z-Series ventilator 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 Z-Series Ventilator 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: Contact Ventüer for further details.

Use in Service History

The Z-Series roof ventilators have been extensively used in a range of different project types throughout Australia.

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

- High aerodynamic performance (co-efficient of discharge of 0.83)
- Fire tested to AS2428.4
- Fully compliant with the building code requirements for natural smoke and heat venting
- Automated or manual over-ride control options available
- Management System Integration (can be integrated with fire control and building management systems)
- Fail-safe operation via either pneumatic or electrical controls

The control panel can incorporate a range of features:

- Sensors for auto closing during inclement weather
- Smoke detection
- UPS battery powered back up
- Ventilation zoning and zone coupling
- Manual over-ride for servicing and maintenance
- Auto timer operation to accommodate ventilation operation demands
- Full integration into Fire Indication Panels

Installation requirements

Installation requirements for the Z-Series ventilators 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 roof top ventilators can significantly reduce the energy consumption of a building, reducing both its carbon footprint and whole of life cost.

