



Tenmat NVFB Cassette Infill (NVFB-CI)

Product Description

Tenmat NVFB Cassette Infill (NVFB-CI) is a bespoke cut strip of 110kg/m³ density, non-combustible stone wool with a thickness dependent on the depth of the cassette panel.

Tenmat NVFB Cassette Infill (NVFB-CI) is fixed to the inner face of the cassette panel to provide a flat surface facing into the void and allows the intumescent open state barrier to maintain a continuous air gap at the back of the panel without the need to notch around the panel joints.

Tenmat NVFB Cassette Infill (NVFB-CI) is tested to the principles of EN1363-1 and ASFP Technical Guidance Document 19 (TGD19).

Intended Use

Tenmat NVFB Cassette Infill (NVFB-CI) is designed for use with the Tenmat VFB 120/120 Ventilated Fire Barrier (Open State Cavity Barrier comprising of FF102 4mm thick intumescent strip with stonewool backing). The NVFB-CI should fill out the depth of the cassette panel, allowing a continuous air gap to be maintained behind the cassette panel without the need for notching around the panel joints.

Key Points

- CCPI Verified
- Tested to the general principles of EN1363-1 and following ASFP Technical Guidance Document 19 (TGD19)
- Manufactured from the same stone wool as Tenmat NVFB / VFB120/120 Ventilated Fire Barrier
- Suitable for cavity widths between 90mm and 300mm

Specification

Product Dimensions	Bespoke cut width x depth to suit panel x 1000mm long
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Technical Information

Material	Stonewool
Finish	Plain
Storage	Dry, ambient (see Safety Data Sheet)
Weight	Bespoke sizes ranging from 0.15kg to 3kg dependent on size to suit cassette panel
Thermal Conductivity - EN 13162	$\lambda_D = 0.035 \text{ W/mK}$
Reaction to Fire	Classified 'A1' to EN13501-1
Resistance to Fire	See Fire Test Evidence table
Durability of reaction to fire and thermal conductivity to EN 13162 (stone wool element)	Reaction to fire and thermal conductivity does not change with time against heat, weathering, ageing/degradation.

The product is not subject to any warning or ban under Section 26 of the NZ Building Act 2004.

Substrates

- Masonry; minimum 150mm thick and comprise of concrete, aerated concrete or masonry, with a minimum density of 650kg/m³.
- Steel Frame System; Metsec SFS 100mm x 2mm thick faced with 12.5mm Knauf Windliner Board on the outer face.

The supporting construction must be classified in accordance with EN13501-2 for the required fire resistance period.

Performance Data

Fire Resistance Performance of Tenmat NVFB Cassette Infill (NVFB-CI) installed within a 31mm deep 2.3mm thick Cassette Panel - Tested to the general principles of EN1363-1 and ASFP TGD19

Product Reference	Overall Cavity Width	Air Gap*	Fire Resistance Performance	
			Integrity	Insulation
NVFB-CI	90mm	25	90	30
	91mm - 300mm		45	30

**Maximum air gap permissible between front face of VFB 120/120 open state cavity barrier and rear face of the NVFB Cassette Infill (NVFB-CI)*

Installation Instructions

- Install the Tenmat VFB 120/120 Ventilated Fire Barrier as per the installation instructions on the Technical Data Sheet.
- Take a 1 metre strip of Tenmat NVFB Cassette Infill (NVFB-CI) and cut to length, (if the panel is wider than 1 metre, use extra lengths ensuring a tight butt joint between lengths and no gaps) ensure the total length of the insert is 5mm longer than the cassette panel opening.
- Mark on the cassette panel where the VFB 120/120 will line up and ensure the NVFB-CI is installed centrally so that the VFB 120/120 can expand against the full surface of the NVFB-CI.
- Apply a 6mm bead of PFC Corofil Fire Resistant Silicone Sealant in two lines approximately 25mm in from each edge along the full length of the strip to one face of the NVFB-CI.
- Place the NVFB-CI with the sealant facing the panel into the cassette and apply firm pressure along its length making sure the insert is fully adhered to the cassette panel.
- Apply PFC Corofil Fire Resistant Silicone Sealant around the edges of the insert to seal against the cassette panel and install the panel. Make sure that the VFB 120/120 and the NVFB-CI are in line.

Limitations

To ensure compliance to the relevant test evidence detailed within this Data Sheet, the product must be installed as per the fitting instructions by competent installers. The product must only be used in vertical or horizontal orientations.

Maintenance

- No active maintenance required.
 - Where alterations are made around the product it should be checked visually to ensure that the product is still installed as per the approved original design and fitting instructions at the time of original installation.
 - Where product(s) is damaged or tampered, new product should be installed in line with installation guidance.
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Storage Conditions

- See Safety Data Sheet
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Tools Required

- Sharp Knife
 - Measuring Tape
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PPE Required

- Hand protection
 - Eye protection
 - Follow project site requirements
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Disposal

- Stone wool insulation is non hazardous waste and is categorised as “waste accepted at landfill for nonhazardous waste” and local regulations should be followed.

Please see Safety Data Sheet for more information.

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Tenmat warrants the materials it produces will conform to Tenmat specifications and approved drawings where applicable. It is entirely the customer's responsibility to make the final product choice and satisfy themselves of the suitability of the product for the intended application, carrying out testing where required. For construction projects, all products which the customer is intending to use on a particular project must be approved in writing by the customer's building designer, system designer or design control professional, to ensure compliance with the latest regulations.

The information contained in Tenmat data sheets is presented in good faith. Tenmat Limited makes passive fire protection product suggestions based solely upon and limited to the information made available to Tenmat. Tenmat possesses knowledge of fire test data and offers manufacturers installation advice. Within reason, Tenmat is skilled at offering opinion concerning the installations in question, and can comment on interfaces with other construction materials, but this is not a recommendation or decision. Decisions on overall building fire strategy are not made by Tenmat. Tenmat products have been tested for a wide range of construction types, and they must be only used in accordance with Tenmat test evidence. Each specific Tenmat product must be installed into a construction that matches the corresponding test report. Tenmat product performance requires safe and proper handling and correct installation.

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