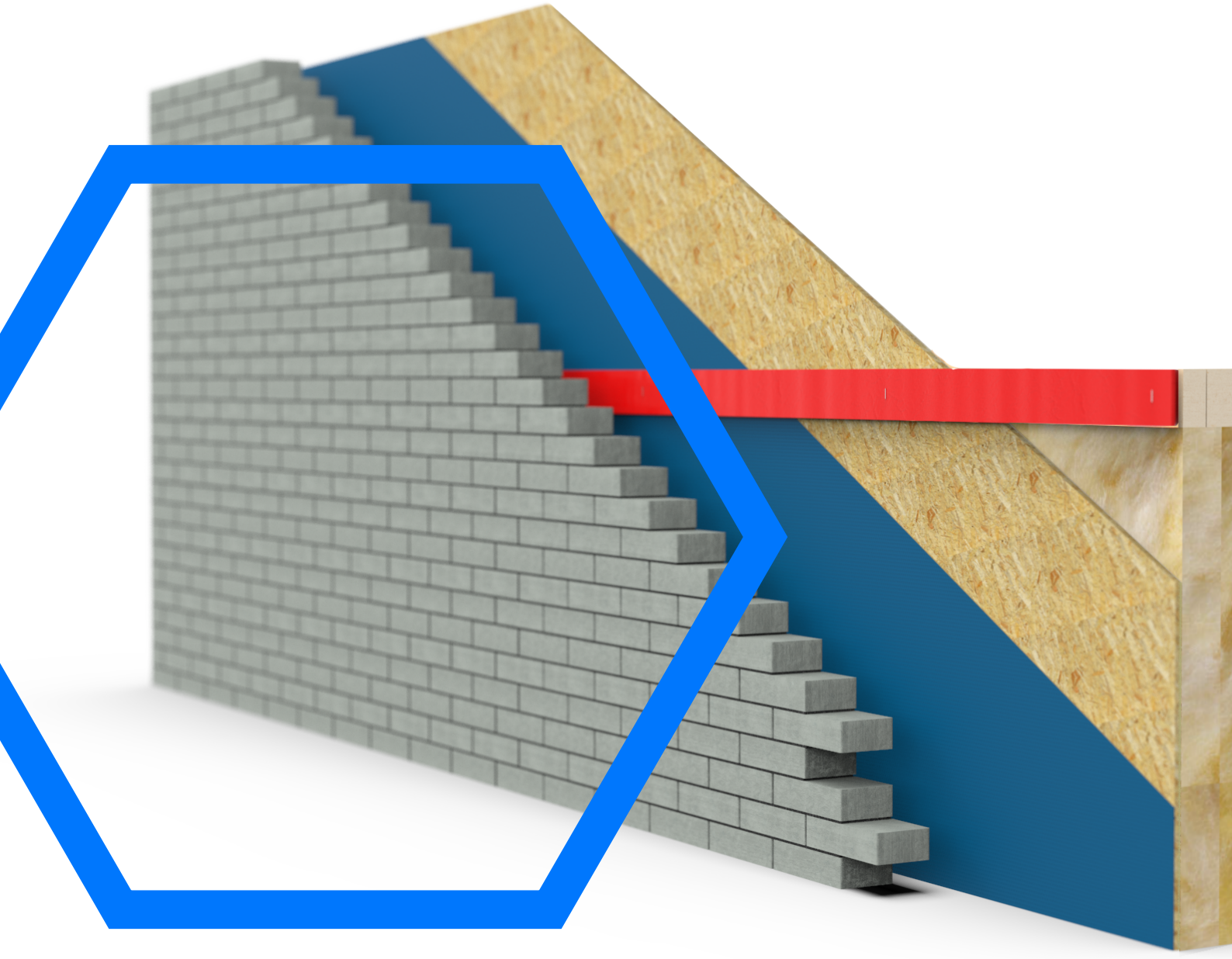
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CavGuard Roll 65

Tenmat's CavGuard Roll 65 has been designed to reinstate fire resistance performance within external wall cavities, that require permanent ventilation (in non-fire conditions).

Passive Fire Protection - Cavity Barriers

Product Description

Tenmat's CavGuard Roll 65 is a cavity fire barrier designed to firestop the cavity behind external walls consisting of outer substrates of masonry or brickwork. They are designed to be installed horizontally or diagonally/inclined (max. 70° angle) to reinstate fire resisting performance to external wall cavities that are required to be ventilated (open-state) in non-fire conditions.

The low smoke zero halogen highly expansive intumescent material allows ventilation to be maintained in non-fire conditions.

The CavGuard Roll 65 is made from a flexible intumescent material allowing it to be provided in a roll format. With a thickness of only 6mm, the low profile design offers significant space and labour saving over traditional cavity socks, whilst also ensuring the external cavity is left unobstructed and free to ventilate. It is also covered with a protective layer of polythene for ease of handling.

In the event of a fire the CavGuard Roll 65's intumescent material will expand to close the external wall cavity, providing effective fire resistance, for integrity and insulation for 60 minutes* depending upon the construction of the external wall cavity. The CavGuard Roll 65 is designed to close off a total cavity of 65mm which allows for building tolerances of up to 15mm (above the typical maximum cavity ventilation requirements of 50mm).

Product Details

Technical

- CCPI Verified
- An "open state" cavity fire barrier for use horizontally within uninsulated, ventilated and drained cavities
- Approved for use in inclined/diagonal applications (max. 70° angle) such as a gable end under a pitched roof
- Fire Rated for up to 60 minutes for both integrity and insulation when tested to the general principles of BS EN 1363-1 following ASFP TGD 19 guidance
- Suitable for masonry and brickwork external substrates only
- Ventilated design – developed to allow maximum ventilation of uninsulated cavities reducing the need for cavity trays or weepholes.
- Suitable for ventilated cavities up to 65mm wide, including building tolerances of up to 15mm (50mm + 15mm)
- Provided in rolls of 6.3m long

Installation and maintenance

- Flexible and lightweight - designed to be easily and quickly installed
- No maintenance required after installation

Dimensions

6mm x 75mm x 6,300mm

Packaging

Box QTY	Pallet QTY	Full Load QTY
60	240	5760

Box dimensions - 1,188 x 788 x 310mm

Tenmat

NBS

Approved Applications

CavGuard Roll 65 Open State Cavity Barrier

Tested to BS EN 1363-1 and to the principals of ASFP TGD19

Inner Leaf Substrate Type with Appropriate Fire Rating	Outer Leaf Substrate Type with Appropriate Fire Rating	Orientation	Insulation Type Within Cavity	Maximum Cavity Width (in mm)	Maximum Open State Air Gap (in mm)	Product Fire Resistance Rating	
						Integrity	Insulation
Timber Frame[2] with OSB3	Concrete, Brick, Blockwork, Pitched Face Stone, Random Faced Stone	Horizontal / Inclined (max. 70° angle)[1]	None	65	59	60	60
Timber Frame[2] with Calcium Silicate Board[3]	Concrete, Brick, Blockwork, Pitched Face Stone, Random Faced Stone	Horizontal / Inclined (max. 70° angle)[1]	None	65	59	60	60
Timber Frame with Gypsum Type Board[3]	Concrete, Brick, Blockwork, Pitched Face Stone, Random Faced Stone	Horizontal / Inclined (max. 70° angle)[1]	None	65	59	60	60
Timber Frame[2] with Cement Particle Board[3]	Concrete, Brick, Blockwork, Pitched Face Stone, Random Faced Stone	Horizontal / Inclined (max. 70° angle)[1]	None	65	59	60	60
Concrete or brick/blockwork	Concrete, Brick, Blockwork, Pitched Face Stone, Random Faced Stone	Horizontal / Inclined (max. 70° angle)[1]	None	65	59	60	60
Any option of Inner Leaf may be used with any combination of Outer Leaf							

[1]Gable End Walls - Diagonal / Inclined Installation

Kiwa Fire Safety Compliance conclude that any of the above approved applications may be inclined at angles up to 70° from the horizontal without causing deterioration of the test results.

[2]Timber Frame inner substrate tested with min. 9mm thick OSB Sheathing Board with a minimum 35mm thick timber stud that must be in place directly behind the sheathing board in line with the cavity barrier.

[3]Calcium silicate, gypsum and cement particle boards shall be Class A2 or higher reaction to fire and manufacturered according to EN 520.

The inner wall shall comprise a proprietary timber-framed construction, with direct and applicable fire test evidence to demonstrate that it can provide at least 30 or 60 minutes fire resistance (as required for the project), when tested to EN 1364-1 or concrete or blockwork.

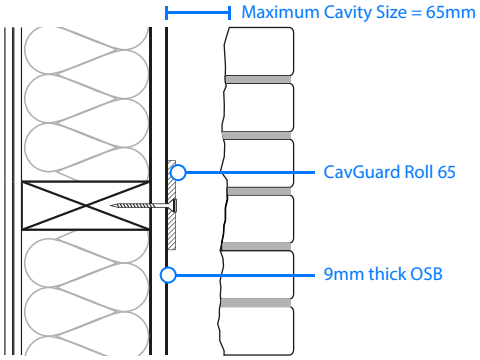
Open state cavity barriers are tested in conjunction with the technical guidance document developed by the ASFP, TGD19 for use with horizontal cavity barriers, any application for open state cavity barriers should be confirmed with the person responsible for design e.g. the Architect or Fire Engineer responsible for the project design.

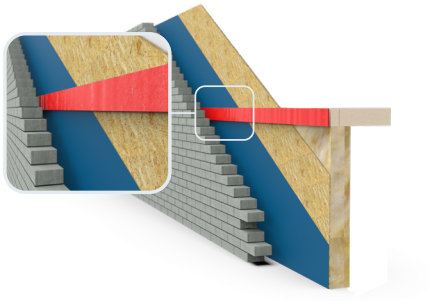
Breather membranes (max. 0.5mm thick) that are Reaction to Fire Class F or higher may be tightly fitted to the inner wall behind the cavity barrier.

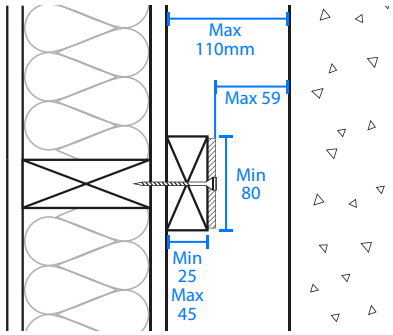
The CavGuard Roll 65 maybe installed on a timber batten of min. 25mm thick up to max. 45mm thick with a height of minimum 80mm.

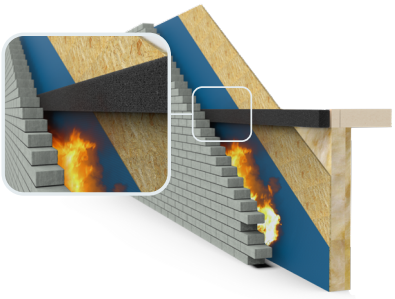
Fire test evidence, safety data sheets and previous versions of product information are all available upon request by contacting Tenmat, please click here

Typical Installation Details









Technical Information

Colour	Red
Finish	Polythene Wrap
Storage	Dry, ambient (see Safety Data Sheet)
Weight	2.5kg
Reaction to Fire	The intumescent/reactive seal on the leading edge is Class 'E' to EN 13501-1. This is permitted where intumescent and fire stopping materials are necessary to meet the requirements of Approved Document B as per Building Regulations section 7(3)(f).
Fire Resistance	See Fire Test Evidence table.
Durability to EOTA TR024 (Intumescent/Reactive Seal)	Type X - intended for outdoor use or exposed to free weathering - rain, UV, high temperatures in summer, frost and frost-thaw in winter.[1]
Smoke Generation - BS EN 45545-2	Low Smoke Generation in intumescent material testing [2] Tenmat FF107 Results Ave. Ds(max)20 value = 4
Halogen Content	Halogen-free Tested Max. Values Fluorine = 0.0006% / 6ppm Bromine = 0.0001% / 1ppm Chlorine = 0.0007% / 7ppm Iodine = 0.0006% / 6ppm Max. limit 0.5% / 5000ppm[3]
Indoor Air Quality (VOC Emissions)	Tested in accordance with UL 2818. TVOC emissions comply with UL 2818 limits and individual VOC emissions comply with applicable CDPH CREL require-ments.[4]
Working Life	60 years[5]

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

Working life, smoke generation and halogen content data refers to the active intumescent component.

[1] Type X testing to EOTA TR024 detailed in Report - (2300/522/18) - 1/2018 - Br/Mü dd. 2018/03/19.

[2] Testing for Ds(max)20 records the greatest smoke density generated during twenty minutes, it is a logarithmic expres-sion relating to how much light can be transmitted through the smoke. In the EN45545-2 standard, a maximum value of 300 must be demonstrated for the most demanding applications, typically underground passenger rail with auton-omous vehicles. Tenmat's intumescent material can therefore be considered to be low-smoke. Test evidence in Doc. Ref. 396264.

[3] According to the IEC 60754-1 standard, halogen-free equates to less than 0.5% / 5000ppm hydrogen halide gas re-lease on combustion. This means materials must contain below these levels for fluorine, chlorine, bromine, or iodine. Doc. Ref. 411109

[4] Complies with UL 2818 TVOC emission limits and applicable CDPH Standard Method (CREL) VOC requirements. The test results may be used as supporting evidence for project assessments under BREEAM, LEED, WELL, and other low-emitting materials programmes that recognise CDPH Standard Method and UL 2818 VOC emission testing. Report No: WD-R-260710-0103

[5] Independent 3rd party review of test data confirmed the intumescent would be expected to be capable of performing its function for a period of at least 60 years in an environment which is protected from the elements for normal temper-ature range of -5C to +30C but can reasonably be expected to cope with intermittent extremes in the range of -20C to +50C. KIWA Technical Report TN/24332/01 Rev A

Before Installation

Before a CavGuard Roll 65 is installed the following information is required to ensure that the selected product is approved for use in the actual construction being utilised.

1) The type of construction being utilised, e.g. timber inner leaf and masonry outer leaf. Please note, CavGuard Roll 65 is to be installed behind masonry/brickwork outer substrates only. Consult with Tenmat for suitable options for other outer substrate types.

2) The required fire resisting performance of cavity barriers is typically 30 minutes for integrity and 15 minutes for insulation (30/15) as per Approved Document B in England and Wales.

3) The CavGuard Roll 65 must only be used in the horizontal orientation. For vertical applications, please consult with Tenmat for appropriate product.

4) The cavity size and the building tolerances of the cavity. (For example 50mm designed cavity and building tolerance 10-15mm).

5) Take account of any insulation within the cavity, if insulation is required within the cavity please seek additional advice from Tenmat as the CavGuard Roll 65 is not suitable for this application.

When the above information is obtained then this can be cross referenced with the CavGuard Roll 65 fire test evidence table to ensure that the product selection is correct. The product selected should be confirmed as being approved with the persons responsible for design, for example principal designer or project fire engineer.

General Preparation

Each Tenmat CavGuard Roll 65 is 6.3 metres long by 75mm wide and 6mm thick.

Suitable for maximum 65mm cavities (including building tolerances up to 15mm) providing a maximum free air cavity of 59mm (in front of the fire barrier).

POSITIONING, OBSTRUCTIONS AND INSULATION

The CavGuard Roll 65 should freely face into the cavity and should be installed horizontally in a continuous band across the floor level of the building in line with the compartment floors.

The correct positioning should be confirmed with the persons responsible for the design of the project. All joints must be tightly butted together so that the intumescent material is continuous throughout the cavity.

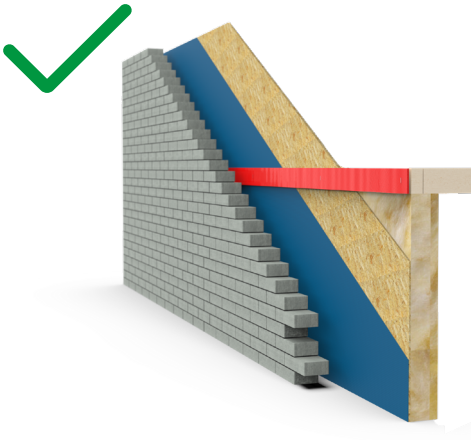
Note - The Tenmat CavGuard Roll 65 should be installed in such a way that ensures the cavity is left open, allowing the barrier to expand freely in a fire situation. Obstructions such as rails or timber battens should **not** interrupt, encase or cover the CavGuard Roll 65, battens and rails should be cut either side of the fire barrier leaving a 10mm gap above and below the cavity barrier to ensure the product can expand freely.

Note - The CavGuard Roll 65 is **not** designed for use within cavities where insulation is required to be installed. More suitable alternatives are available from the Tenmat range of products, where insulation is required to be present within the cavity.

Not approved for use behind cladding /weatherboarding



Approved use behind masonry/brickwork. (CavGuard Roll 65 must be unobstructed to allow for free expansion).



Fixing Details

Fixings (staples, screws) must be fixed at maximum 40mm from the end of the fire barrier and then at maximum 150mm centres for staples and maximum 300mm centres for screws.

When using screws, the screws shall be installed carefully to the screw heads provide adequate support/retention to the CavGuard Roll 65 without pulling-through the intumescent material.

TIMBER

Staples - When fixing directly into timber substrates only. T50 staples can be used that are a minimum 12mm long and stainless steel.

Screws - When fixing directly into substrates other than OSB, stainless steel screws must be used. The diameter of the screw head should be a minimum of 5mm and a maximum width of 16mm, the length of the screw should be a minimum of 50mm or as per fixing manufacturer recommendations.

MASONRY

When fixing into masonry self tapping stainless steel screws should be used, the diameter of the screw head should be a minimum of 5mm and a maximum of 16mm. The length of the screw should be a minimum of 50mm or as per fixing manufacturer recommendations.

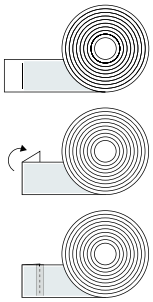
GYPSUM/CALCIUM SILICATE/CEMENT PARTICLE BASED SHEATHING BOARDS

When fixing through exterior sheathing board substrates, stainless steel screws should be used, the diameter of the screw head should be a minimum of 5mm and a maximum of 16mm. The length of the screw should be a minimum of 50mm or as per fixing manufacturer recommendations and shall engage into the underlying min. 35mm thick timber stud. Staples must not be used for these substrate types.

General Preparation

Ensure when applying the CavGuard Roll 65 to timber frame that the cavity barrier is fixed through the outer sheathing board into the timber floor construction / joist / batten of minimum 35mm high/thick, at the point of the compartment floor.

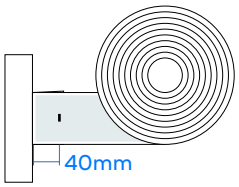
Installation of Product



Step 1

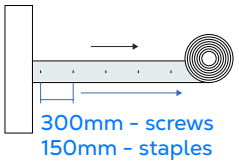
Ensure the polythene sleeve fully covers the free end of the roll. If any intumescent material is visible, pull back the polythene sleeve to expose the end of the intumescent material and trim it as required to allow a minimum of 50 mm of polythene sleeve to be folded behind the face of the roll.

Pull the polythene sleeve back over the remaining intumescent material and fold the excess sleeve behind the face of the roll.



Step 2

Position the roll so that the end is tightly butted against the required construction detail. Install the first fixing on the centreline of the roll within 40 mm of the roll end.



Step 3

Continue fixing along the centreline of the roll at maximum centres of:
300 mm for screw fixings; or
150 mm for staple fixings.

Refer to Step 6 where applicable.

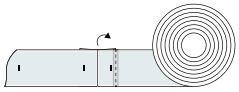


Step 4

If the end of the roll is reached before the required run is completed, ensure the free end is prepared in accordance with Step 1 so that no intumescent material remains visible.

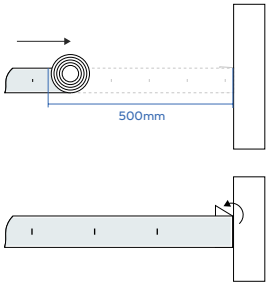
Installation Steps 5-7 continued on the next page.

Installation of Product



Step 5

Where an additional roll is required to complete the run, prepare the new roll in accordance with Steps 1 and 2. Ensure the ends of the intumescent material within each polythene sleeve are tightly butted together before continuing the installation in accordance with Step 3.



Step 6

When the barrier run is within 500 mm of the finish point, mark the required position.

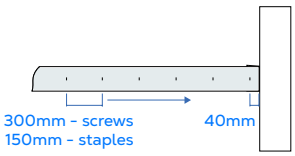
Trim the polythene sleeve 50 mm longer than the required barrier length.

Pull back the sleeve to expose the intumescent material.

Confirm the required barrier length and trim the intumescent material to achieve a tight fit against the construction detail.

Pull the polythene sleeve back over the intumescent material.

Fold the additional 50 mm of polythene sleeve behind the barrier.



Step 7

Continue along the centre line of the roll applying fixings at maximum 300mm centres (screws) or 150mm centres (staples). Ensure the final fixing is within 40mm of the end of the roll.

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 a horizontal orientation.

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.

Storage Conditions

- See Safety Data Sheet

Tools Required

- Sharp Knife
- Measuring Tape
- Stainless steel screws/staples
- Appropriate Drill / Staple Gun

PPE Required

- Hand protection
- Eye protection
- Follow project site requirements

Disposal

- Outer packaging can be cleaned and recycled.
- Intumescent material is non hazardous waste and is categorised as “waste accepted at landfill for non-hazardous waste” and local regulations should be followed.

Please see Safety Data Sheet for more information.

CavGuard Roll 65

Tenmat Ltd.
Northbanks Industrial Park,
Irlam, Frank Perkins Way,
Greater Manchester,
M44 5EW

+44 161 872 2181
fpsales@tenmat.com

tenmat.com

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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.

Doc Reference: TDS-39		
Revision: 3	Date: 05/11/2026	
PB: CM	CB: CT	AB: DR