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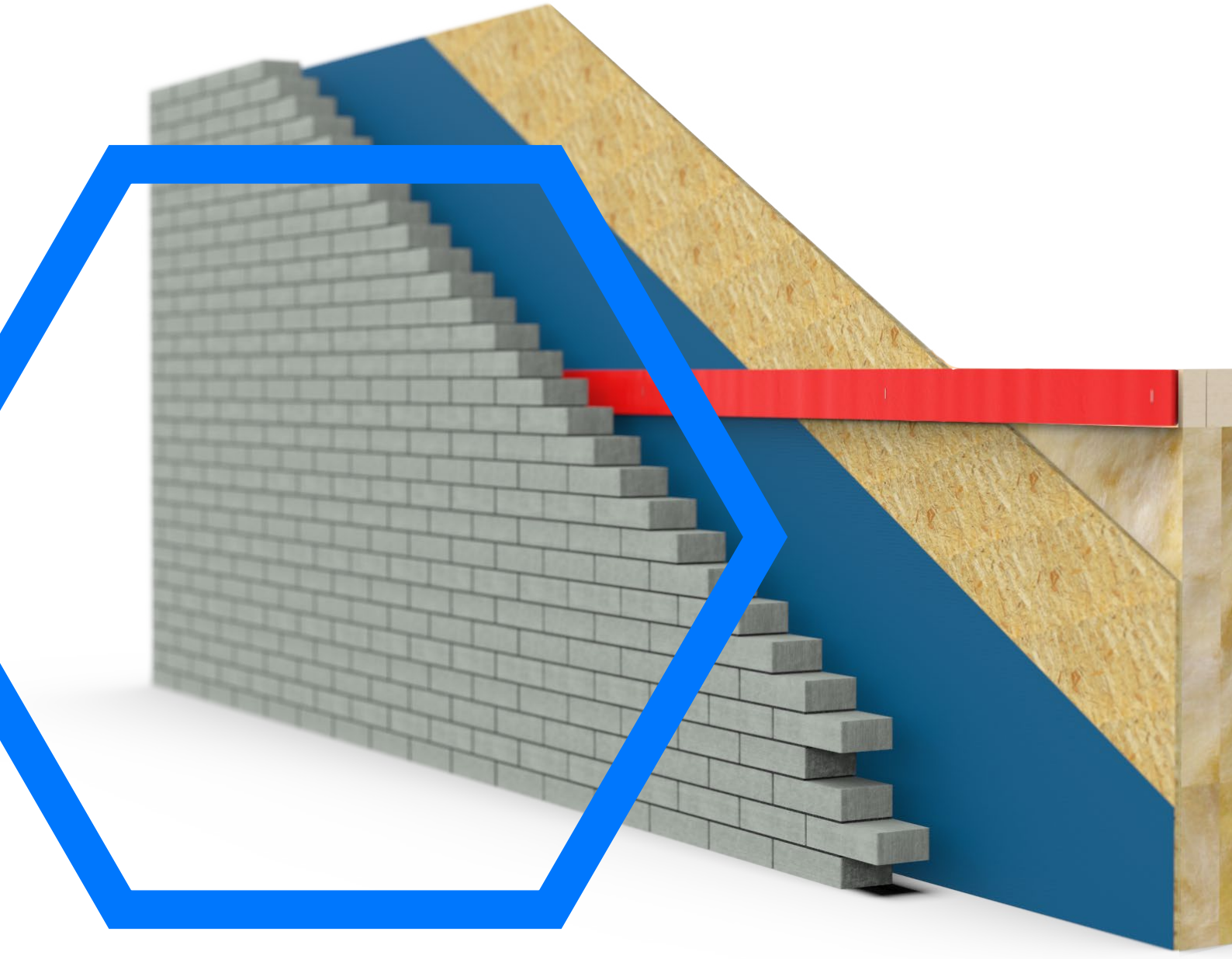


CavGuard Roll 65

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. 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
- A fire rated product, providing fire resistance performance within external wall cavities, for periods up to 60 minutes*
- 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

CCPI ASSESSED PRODUCT INFORMATION 0023000002/1227 Cavity Barriers

NBS

Tenmat

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 Dimensions (thickness x height x length in mm)	Product Fire Resistance Rating	
							Integrity	Insulation
Timber Frame with OSB3	Concrete	Horizontal	None	65	59	6 x 75 x 6300	60	60
Timber Frame with Calcium Silicate Board	Brick/Blockwork	Horizontal	None	65	59	6 x 75 x 6300	60	60
Timber Frame with Gypsum Type Board	Pitched Face Stone	Horizontal	None	65	59	6 x 75 x 6300	60	60
Timber Frame with Cement Particle Board	Random Faced Stone	Horizontal	None	65	59	6 x 75 x 6300	60	60
Any option of Inner Leaf may be used with any combination of Outer Leaf								

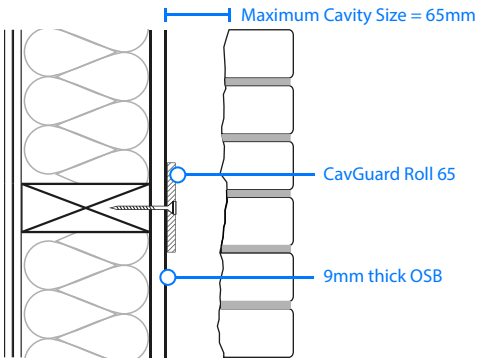
Timber Frame inner substrate tested with min. 9mm thick OSB Sheathing Board with a minimum 35mm thick timber stud that must be in place directly behind the sheathing board in line with the cavity barrier.

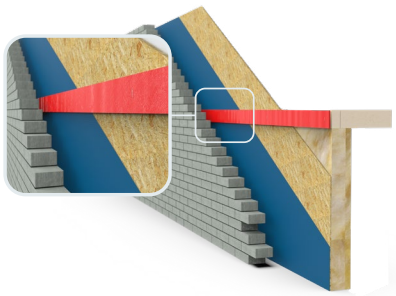
Open state cavity barriers are tested in conjunction with the technical guidance document developed by the ASFP, TGD19 for use with horizontal cavity barriers, any application for open state cavity barriers should be confirmed with the person responsible for design e.g. the Architect or Fire Engineer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

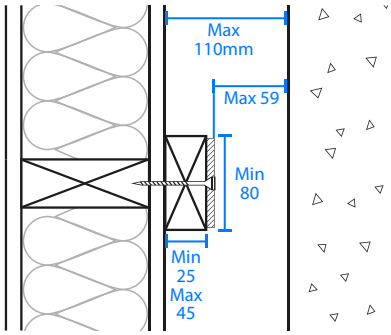
The CavGuard Roll 65 maybe installed on a timber batten of min. 25mm thick up to max. 45mm thick with a height of minimum 80mm.

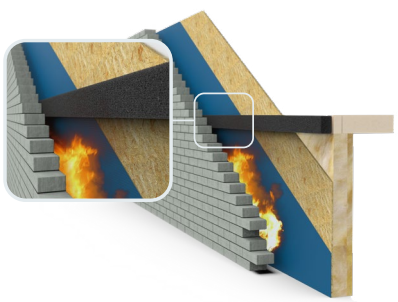
Fire test evidence, safety data sheets and previous versions of product information are all available upon request by contacting Tenmat, please click here

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]
Working Life	60 years[4]

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 expression 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 autonomous 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 release on combustion. This means materials must contain below these levels for fluorine, chlorine, bromine, or iodine. Doc. Ref. 411109

[4] 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 temperature 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.

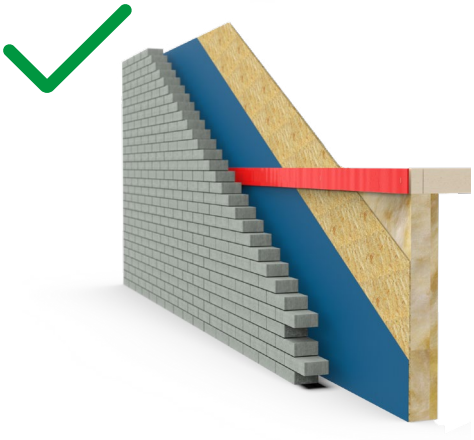
The correct positioning should be confirmed with the persons responsible for the design of the project. All joints must be tightly butted together so that the intumescent material is continuous throughout the cavity.

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/nails.

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 11.5mm, the length of the screw should be a minimum of 50mm.

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 11.5mm. The length of the screw should be a minimum of 50mm.

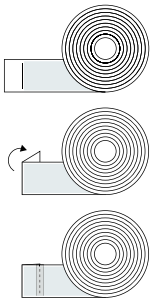
GYPSUM/CALCIUM SILICATE BASED SHEATHING BOARDS

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 11.5mm. The length of the screw should be a minimum of 50mm and shall engage into the underlying min. 35mm thick timber stud. Staples must not be used for these substrate types.

General Preparation

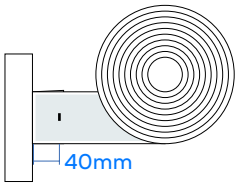
Ensure when applying the CavGuard Roll 65 to timber frame that the cavity barrier is fixed through the outer sheathing board into the timber floor construction / joist / batten of minimum 35mm high/thick, at the point of the compartment floor.

Installation of Product



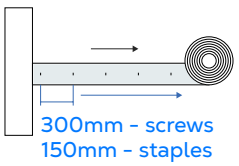
Step 1

Ensure that the polythene sleeve fully covers the free end of the roll, if the intumescent material is visible pull the polythene sleeve back to reveal the intumescent material and cut enough of the intumescent material away to allow at least 50mm of the polythene to be folded back behind the face of the roll.



Step 2

Once in position, ensure that the end of the roll is tightly butted up to the correct construction detail, then apply the first fixing within 40mm of the beginning of the roll on the centre line of the roll.



Step 3

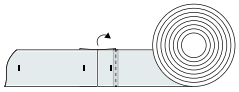
Continue along the centre line of the roll applying fixings at maximum 300mm centres (screws) or 150mm centres (staples) whilst being aware of step 6.

Step 4

If the roll runs out prior to the end of the required run, ensure that the intumescent material is not visible following step 1.

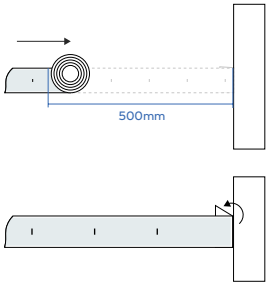
Installation Steps 5-7 continued on the next page.

Installation of Product



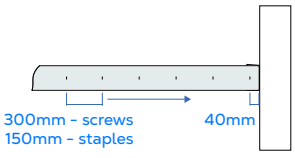
Step 5

If a new roll is required to complete the required run follow steps 1 and 2 ensuring that the two ends of the intumescent material within the polythene sleeve are closely butted together and then continue with step 3.



Step 6

Once the end of the required run is within 500mm of the finish point, carefully mark the position required for the intumescent material, trim the polythene sleeve 50mm longer than required, pull the sleeve back to uncover the intumescent material, double check the required barrier length and trim the intumescent as required, to form a tight fit against the construction detail. Pull the polythene sleeve back over the intumescent material and fold back the 50mm overcut polythene sleeve to the rear of 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

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