

# FF104E



Tenmat FF104E is a dark grey intumescent paper which generates high expansion and expansion pressure when exposed to fire or heat.

FF104E is highly flexible allowing it to be wrapped or folded to suit various applications but produces an excellent char structure helping to maintain integrity throughout the fire. FF104E was also tested according to ASTM E84 (UL 723) to measure its surface burning characteristics and achieved a flame spread index of 0 (zero) and a smoke developed value of 0 (zero).

FF104E is suitable for applications such as door and glazing seals, door hardware and ironmongery protection, damper seals, gap sealing or a variety of gasketing applications.

FF104E can be supplied with or without self-adhesive backing. It is available in full rolls, sheets or alternatively slit to strips with a variety of widths and roll lengths. The material is also suitable for gasket cutting.

## Technical Data

Property	Units	Typical Value
Density	kg/m <sup>3</sup>	820
Moisture Content	%	131
Free Expansion Ratio (@ 400 °C, 15 mins)		23:1
Activation Temperature (under 50 psi load)	°C	200
Pressure Generation Expansion @ 400 °C	Bar	11
Surface burning characteristics ASTM (UL 723):	Flame Spread: 0	Smoke Developed: 0

## Dimensions

### Standard Dimensions

Thickness (mm)	0.5	0.8	1.0	1.3	1.8	2.1
Self-Adhesive Backing	No	Yes	No	Yes	No	Yes
Width (mm)	560	560	1120	1120	1120	1120
Length (m)	100	100	100	100	50	50

## Safety Considerations

\*Be sure the electricity to the system you are working on is turned off; either the fuse removed or the circuit breaker set at off.

### CONTAINS STONE WOOL INSULATION

Stone fibers may cause temporary mechanical irritation to the skin, throat, nose and eyes.

### FIRST AID

#### Skin

If irritation occurs, do not rub or scratch. Rinse under running water prior to washing with mild soap and water. Consult a physician if irritation persists.

#### Throat and Eyes

If irritation occurs, flush eyes with water and/or drink water to clear throat. Do not rub the eyes. Consult a physician if irritation persists.

### PRECAUTIONS

Wear long sleeve, loose fitting clothing, gloves and eye protection. For additional information, refer to the Material Safety Data Sheet.

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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. 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. Tenmat can provide the relevant fire test evidence on request.

