

# FF108



Tenmat FIREFLY 108 is a low density, compressible intumescent material which exerts relatively low pressure and free expansion characteristics. The low free expansion ensures an extremely solid and stable char structure is produced.

Tenmat FIREFLY 108 can be vacuum formed into a variety of shapes as well as being produced in sheet form. It is suited to applications including expansion joint and linear gap seals, cable basket protection, fire stop blocks and other construction joint applications.

Tenmat FIREFLY 108 can be supplied in sheet form up to 610 x 1000mm or alternatively cut into strips within those dimensions. However the main benefit is that the product can be vacuum formed into a variety of shapes to suit client requirements and specification which allows the expansion direction to be controlled.

## Technical Data

Property	Units	Typical Value
Density	kg/m <sup>3</sup>	216
Moisture Content	%	3 max
Free Expansion Ratio (@ 400 °C, 15 mins)		3.58:1
Activation Temperature (under 50 psi load)	°C	200
Pressure Generation Expansion @ 400 °C	Bar	5.0
Age Testing (30 years accelerated)		Yes

## Dimensions

### Standard Dimensions

Thickness (mm)	10	20	30	40	50	60
Width (mm)	610	610	610	610	610	610
Length (mm)	1000	1000	1000	1000	1000	1000

\*Custom vacuum formed shapes are available upon request.  
Please contact Tenmat for enquiries.

## 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.