

## Therm-A-Foam

### Introduction

Many buildings incorporate linear gaps in their structural design which need to be protected in the event of fire to maintain the building's fire resistance integrity. THERM-A-FOAM is a simple moisture resistant preformed intumescent seal designed to provide this protection in a cost effective way without the need for adhesives, mechanical fixings or protective sleeves.

### Description

THERM-A-FOAM is a preformed linear joint seal comprising one or more layers of 10mm or 20mm flame retardant polyurethane foam coated on both sides with THERM-A-FLEX intumescent material. These layers are combined to produce a product suitable for sealing a range of gaps sizes in building structures.

The flexible open cell foam structure allows THERM-A-FOAM to compress by approximately 50% thereby enabling it to take the shape of the building joint it is protecting. At approximately 180°C the installed THERM-A-FLEX begins to expand. During this expansion the flame retardant foam degrades and is replaced by the expanding intumescent graphite thus providing fire protection to the building joint.

### Application

The table below provides a guide to the correct THERM-A-FOAM dimensions for a range of building joint widths and fire resistance requirements.

Fire resistance					
1 hr		1½ hrs	2 hrs	3 hrs	4 hrs
Gap width		Depth of Firefoam fill required			
10	25	25	25	35	40
20	25	25	30	40	50
30	25	25	30	40	50
40	30	30	35	45	55
50	35	35	45	60	75
60	35	35	45	65	90
70	40	40	50	75	105
80	40	40	50	85	105
90	45	45	55	85	105
100	50	50	60	85	105

Linear dimensions in mm

Allow a minimum compression of 15% to cater for ambient temperature movement changes in the building joint.

## Therm-A-Foam

Part of the Dixon  
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[www.dig.co.uk](http://www.dig.co.uk)

### Performance

THERM-A-FOAM will provide fire resistance of up to 240 minutes for masonry building joint widths of up to 100mm.

### Availability

THERM-A-FOAM is available in the following sizes:

Length: 1m as standard

Depth: 25mm to 105mm i.e. to meet fire resistance requirements

Width: 10mm to 100mm i.e. to suit gap size.

### Test Evidence

THERM-A-Foam meets the performance requirements noted above in accordance with BS476:part 20. It is currently being evaluated to the requirements of BS EN 1366  
Copies of test reports and other performance evidence are available on request.

### Contacting Us

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Intumescent Fire Seals Association



\* Colours may vary slightly between examples illustrated in print, online and actual examples - which will depend upon lighting conditions in situ.