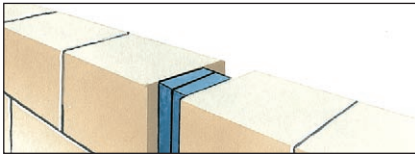


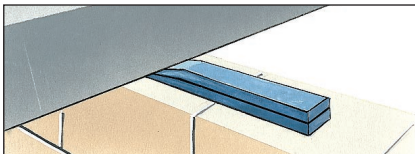


XPANFOAM INTUMESCENT EXPANSION JOINT SEAL

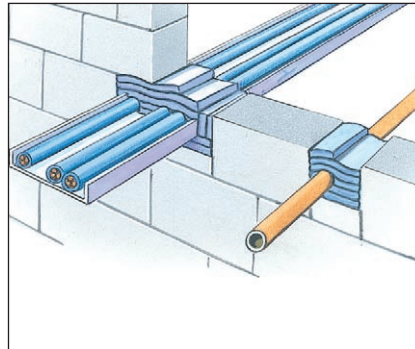
Easy to install, moisture resistant and flexible



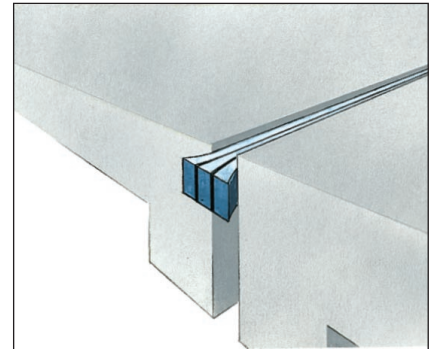
Vertical joint



Wall to floor junction



Cable tray penetration



Floor slab joint

DESCRIPTION

Xpanfoam is made from an open-cell fire retardant foam, which is then coated both sides with an expandable graphite intumescent sealant, containing special binders which maintain complete flexibility. The material is non-toxic and installers need no special protective clothing for installation work.

DURABILITY

Xpanfoam is extremely durable, totally resistant to environmental conditions, both on site during construction and as an integral part of a building. Tests show that many years after installation, Xpanfoam will still be ready to activate in a crisis.

MOISTURE RESISTANCE

Even after undergoing total submersion in water, and then being subjected to freezing conditions, Xpanfoam activates reliably at the designed temperature.

IN ACTION

Xpanfoam functions as a filler for movement joints, and is completely unaffected by normal environmental conditions or atmospheric moisture. At the designed temperature, the intumescent coating begins to expand on the fire side of the joint. During this reaction, the fire resistant foam gradually compresses and is replaced by the expanding mass of intumescent graphite. Thus fire is prevented from penetrating rapidly into the joint.

APPLICATIONS

The product is recommended for:

- Filling fire rated expansion joints in fairface brick and blockwork walls.
- Filling expansion joints in compartment floors.
- Filling gaps in curtain walling adjoining compartment walls, floors and roofs.
- Sealing around pipework, ductwork and cable trays where services pass through fire resisting walls and floors.

DESIGN SUPPORT

Not only does Xpanfoam restrict penetration of fire and smoke; it also meets other requirements, such as structural movement, thermal and acoustic properties.

PERFORMANCE

Independent fire resistance tests to BS 476: Part 20: 1987 have proved Xpanfoam's integrity for periods up to four hours. These cover pipe penetrations, cable tray assemblies and apertures in blockwork ranging from 20mm to 100mm. Report data is available on request.

HOW TO SPECIFY

The table shows the straightforward way to fire-stop movement joints with Xpanfoam. To identify the depth of Xpanfoam required for any application, cross reference the width of joint with the integrity to be maintained. For example: if the requirement is 20mm joint with a two hour rating, specify Xpanfoam 20mm joint x 2 hours.

The chart represents worst-case scenarios. Where depth of fill is in excess of customer requirements (ie 30mm in the above example) our experts will be pleased to advise on the precise volume needed in specific instances.

Performance of Xpanfoam in any structural substrate

FIRE RESISTANCE						
Gap Width	1hr	1.5 hrs	2 hrs	3 hrs	4 hrs	
	Depth of Xpanfoam fill					
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 dimension in mm