TERRAIN

Technical Bulletin 12

Fire Stopping

Drainage pipework that breaches fire rated compartment walls and/or floors can compromise building compartment fire rating requirements if fire protection is not provided to the pipework.

The size of the opening is a major factor in the spread of heat, flame and smoke and should be restricted to maintain the integrity of the fire compartment.

BS 9999:2008: Code of practice for fire safety in the design, management and use of buildings defines the minimum fire stopping requirement

Situation	Maximum nominal internal diameter		
	a) Non-combustible material ^{A)}	b) Lead, aluminium, aluminium alloy, PVC ^{B)} , fibre-cement	c) Any other material
Structure (but not a wall separating buildings) enclosing a protected shaft which is not a stairway or a lift shaft	160	110	40
Compartment wall or compartment floor between flats	160	160 (stack pipe) ^{C)} 110 (branch pipe) ^{C)}	40
3) Any other situation	160	40	40
B) uPVC pipes conforming to BS 4514 and uPVC pipe C) These diameters are only in relation to pipes formi	es conforming to BS5255. ng part of an above-ground drainage system and encl	not soften or fracture to the extent that flame or hot ga osed as shown in Figure 30. In other cases the maximu	m diameters against situation 3) apply
Pipes that pass through a compartment wall or alternatives.	compartment floor (unless the pipe is in a pro	otected shaft), or through a cavity barrier, should	be in accordance with one of the following
a) For proprietary seals of any pipe diameter,	a proprietary sealing system may be provided	that has been shown by test to maintain the fire	e resistance of the wall, floor or cavity barrier.
nominal interior diameter of the pipe shou	ld be not more than the relevant dimensions of	stopping may be used around the pipe (see 33.5 given in Table 33. The diameters given in Table 3 s shown in Figure 30. If they are not, the smaller	3 for pipes of material b) used in situation 2)
A pipe of lead, aluminium, aluminium alloy, fibre-cement or PVC, with a maximum nominal diameter of 160mm, may be used with a sleeving of non-combustible pipe as shown in Figure 31.			
Tests carried out in accordance with BS EN 136	66-3 are specific to service penetrations. Ad he	oc tests should only be used where directly relev	ant to the application.

As can be seen from the above table recommendations are given that apply to Terrain PVC-u pipework.

Pipes that pass through a fire rated compartment wall/floor or cavity barrier should be in accordance with one of the following:

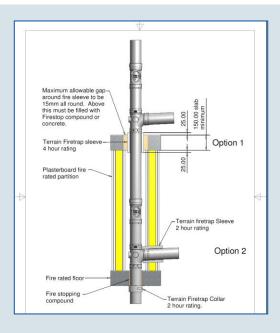
a) Proprietary seals of any pipe diameter, a proprietary sealing system may be provided that has been shown during third party testing to maintain the fire rating of the wall, floor or cavity barrier.

For further assistance please contact our Technical Team on:

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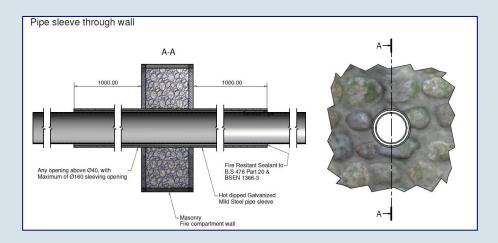


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Terrain Firetrap sleeves and collars comply with BS 476 Part 20 and BS EN 1366-3

b) For pipes with a nominal internal diameter of 40mm or less a proprietary sealing system is not required, however, fire stopping of the hole around the pipe may be required.



c) PVCu pipework with a maximum nominal diameter of 160mm may be used with a sleeving of non-combustible pipe.

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