



May 2009

Cavity Barriers

For concealed cavities

Description

Cavity Barriers are manufactured from a continuous length of non-combustible glass mineral wool which is compressed within a resilient polythene sleeve incorporating two flanges designed for ease of fixing. The polythene sleeve is colour-coded to suit a variety of cavity widths from 50mm to 100mm and eliminates the need for weather protection during installation.

Cavity width (mm)	Nominal length (mm)	Depth (mm)	Barriers per pack	Sleeve colour
50-65	1200	100	50	yellow
66-80	1200	100	40	blue
81-100	1200	100	40	white
50-65	1200	300	13	yellow
66-80	1200	300	10	blue
81-100	1200	300	10	white

All dimensions are nominal

Performance

Fire

Cavity Barriers are manufactured from glass mineral wool which has a Euroclass A1 fire rating when classified in accordance with BS EN 13501-1. Cavity Barriers have been tested for fire resistance in accordance with BS 476: Part 8: 1972 and will provide 60 minutes stability, integrity and insulation.

Benefits

- Meets Building Regulation requirements for both fire and acoustics
- Simple to install and fix due to flanges on all thicknesses
- Easy identification by colour coded polythene for stockist and contractor
- Dimensionally stable and robust

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Application

Cavity Barriers are engineered to prevent the spread of smoke and fire through walls, floors and cavities in timber frame, metal frame and masonry buildings. They are also suitable for reducing flanking sound transmission in these concealed cavities. The use of the correct size of Cavity Barrier is essential. Cavity Barriers are designed to compression fit in cavities. In the event of fire breaking into the cavity, Cavity Barriers do not rely on the polythene flanges to hold them in place, but on their compression between the inner and outer leaves. It is, therefore, essential to specify the Cavity Barrier by reference to the actual constructed cavity width. In vertical applications, both flanges of the Cavity Barrier should be fixed to the inner leaf. In horizontal applications the top flange of the polythene sleeve should be fixed to the inner leaf. All joints and intersections of Cavity Barriers should be closely butted. 100mm barriers are used for normal fire stopping and noise reduction applications. 300mm barriers are used where higher performance levels are specified and at party wall/external wall cavity junctions.

Standards

Cavity Barriers are non-combustible, inorganic glass wool, defined as mineral wool in BS 3533: 1981 and are manufactured in accordance with Quality Assurance Standard BS EN ISO 9001: 2000.

Durability

Cavity Barriers are odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

Environmental

Cavity Barriers are free from CFC's, HCFC's and any other material with ozone depletion potential in their manufacture and content and represent no known threat to the environment.

Cavity Barrier's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.

Handling and storage

Cavity Barriers are easy to handle and install, being lightweight and easily cut to size, where necessary. They are supplied in polythene packs which are designed for short term protection only. For longer term protection on site, the product should either be stored indoors, or under cover and off the ground.

Acoustic

Building Regulations require the use of a cavity closer to reduce flanking noise transmission along party wall cavities and external wall cavities in masonry and timber frame constructions. Cavity Barriers meet the generic description for cavity closers and will therefore ensure compliance with Approved Document E and Robust Details in timber frame and masonry constructions.

Knauf Insulation mineral wool products with ECOSE® Technology benefit from a formaldehyde-free binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals which is up to 70% less energy intensive. The technology has been developed for Knauf Insulation's glass and rock mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE® Technology contain no dye or artificial colours – the colour is completely natural.

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