

Technical DATA SHEET

FLAMRO BSB-K Fire Protection Bricks

Definition

The FLAMRO BSB-K Fire Protection Bricks are elastic polymer foam elements that have been developed specifically for the permanent and temporary sealing of cable ducts in lightweight partition walls, rigid walls and ceilings.



Application Areas

- In min. 122 mm thick walls made from masonry, concrete or cellular concrete
- In min. 122 mm thick lightweight partition walls with posts made from wood or steel

Technical Data

Base	Polyurethane
Filling material	Inorganic and organic flame retardants, pigments, asbestos-free
Operating method	Intumescent material, DIBt abZ Nr. Z-19.11-1795
Shade	Light grey to grey
Toxicity:	Not subject to labelling under Ordinance on Hazard Substances
Appearance	Elastic moulded body
Spec. weight	350 ± 35 kg/m ³
Substrate	No special requirements,. The seal soffits must be dusted before inserting the BSB-K Fire Protection Bricks.

Application Details

Optimal working temperature: ≥ 20°C. At ambient temperatures above 20°C the FLAMRO BSB-K Fire Protection Bricks demonstrate high elasticity. At low temperatures heat the bricks slightly for installation. FLAMRO KL Coating Material must be used for filling interstices between cables and for coating cables. Additional information on this topic may be found in the Installation Instructions. In regions where there is a higher risk of attack from microbes (tropical regions, composting plants etc.), FLAMRO BSB K Fire Protection Bricks should be used with a preserving agent. In such cases, please contact the supplier.

Processing: The material may be worked without any difficulty using a box cutter and / or serrated knife
 Storage: Original packing at room temperature
 Packaging: 1 PU (box, 20 items)

This technical information represents our current level of knowledge and experience. Changes without prior notification are reserved. Please use respective, new technical information as our level of knowledge and experience is constantly evolving. In case of doubt, please contact FLAMRO. Described application examples do not include special circumstances of individual cases and are hence held without responsibility. Other than that, the terms and conditions of FLAMRO Brandschutz-Systeme GmbH apply exclusively (new version).

Montageanleitung

FLAMRO BSB-K Plug

according to ETA-15/0816



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Components

Rigid walls

The wall must have a minimum thickness of ≥ 100 mm and consist of concrete, aerated concrete or masonry.
The wall shall be classified in accordance to EN 13501 - 2 for the required fire resistance period.

Lightweight partition walls

Lightweight partition walls must have a minimum thickness of ≥ 94 mm and consist of steel stands (U and C profiles; 0,5 - 1,5 mm thickness) which are to be coated on both sides with at least two layers of 12,5 mm thick panels of classification A2-s1, d0 oder A1 in accordance to EN 13501-1.

Additionally, wood stands can be used instead of steel stands. In this context, it should be noted that there must be a minimum distance of 100 mm between wood stands and partition. The insulation in between those stands must be at least comply with the building material class A1 or A2 (in accordance to EN 13501-1) and have a raw density of 85 - 115 kg/m³ (in accordance to EN 1363-1).

The soffit revetment must be built from steel stands with a minimum thickness of 0,6 mm and panels of the same specifications as of the wall.

The supporting structure must be classified for the necessary fire resistance duration in accordance to EN 13501-2.

The required fire protection measures on the following pages apply for subsequent installations also.

Application field

Identifier	Wall	Lightweight partition walls
Thickness of the component	≥ 122 mm	≥ 122 mm
Thickness of the penetration seal	≥ 122 mm	≥ 122 mm
Maximal dimensions of component reveal (width x height)	$\emptyset 180$ mm	$\emptyset 180$ mm
Distance to other cable/ pipe penetration seals	100 mm	100 mm
Distance to other openings or installations	100 mm	100 mm

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Approved assignments and classifications

- Cable - Wall					
Reveal size	Assignment	Additional fire protection measures	E	I	Pipe end configuration
Core drilling ≤ 60 mm	Sheathed cables Ø ≤ 21 mm	-	120	120	-
	Empty conduits made of plastic* Ø ≤ 20 mm (Single or up to 3 cables in a bundle)				C/C
Core drilling ≤ 180 mm	Sheathed cables Ø ≤ 21 mm		90	90	-
	Cable bundles up to Ø ≤ 50 mm with single cables Ø ≤ 21 mm		60	60	-
	Empty conduits made of steel** Ø ≤ 20 mm (Single or up to 3 cables in a bundle)		120	120	C/C
	Empty conduits made of plastic* Ø ≤ 16 mm (Single or up to 3 cables in a bundle)				
Core drilling ≤ 160 mm	Empty penetration seal		120	120	-

*Minimum length on both sides 350 mm measured from the penetration seal, according to EN 6138621/-22 made of plastic, smooth or waved as well as rigid or flexible, made of PVC, of polyolefine with or without fire protection

** Minimum size on both sides 350 mm measured from the penetration seal

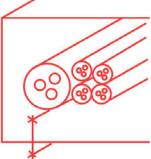
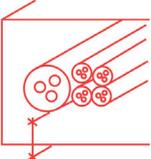
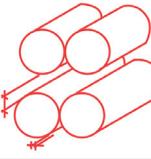
Steel cable trays (perforated or unperforated) or steel ladders must not be led through the penetration seal.

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Distance regulations for rigid walls and floors

Cable / cable bundle/ cable supporting structures	Distance
	<p>Cable/ cable bundles / electric conduits to the penetration seal</p> <p style="text-align: center;">≥ 0 mm</p>
	<p>Cable to electric conduit</p> <p style="text-align: center;">≥ 0 mm</p>
Control lines made of steel or plastic	
	<p>Distance next to each other</p> <p style="text-align: center;">≥ 0 mm</p>

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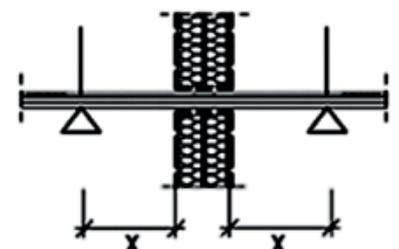
Applied products

Image	Article identifier	Art.-No.:
	FLAMRO BSB-K Plugs EN Ø 62 mm Ø 70 mm Ø 76 mm Ø 104 mm Ø 129 mm Ø 154 mm Ø 182 mm	33062 33070 33076 33104 33129 33154 33182
	FLAMRO-KL 0.5 kg cartridge 5.0 kg package	70050 70500
	Identification sign	14000

Arrangement of the first support (backings)

Supports/Backings of the installations in front of the wall insulation must consist of essentially non-combustible components and be arranged with a distance according to the following overview.

Installation	Wall
Cable trays	≤ 130 mm on both sides
Electric conduits	



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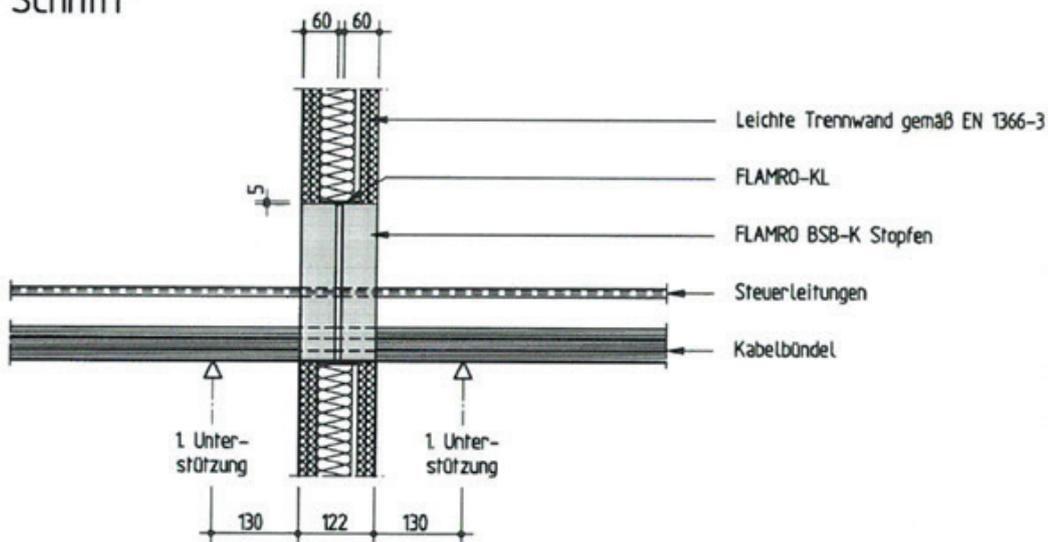
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Fire Protection measures in walls and floors

Cable - wall -

Schnitt



Schnitt

