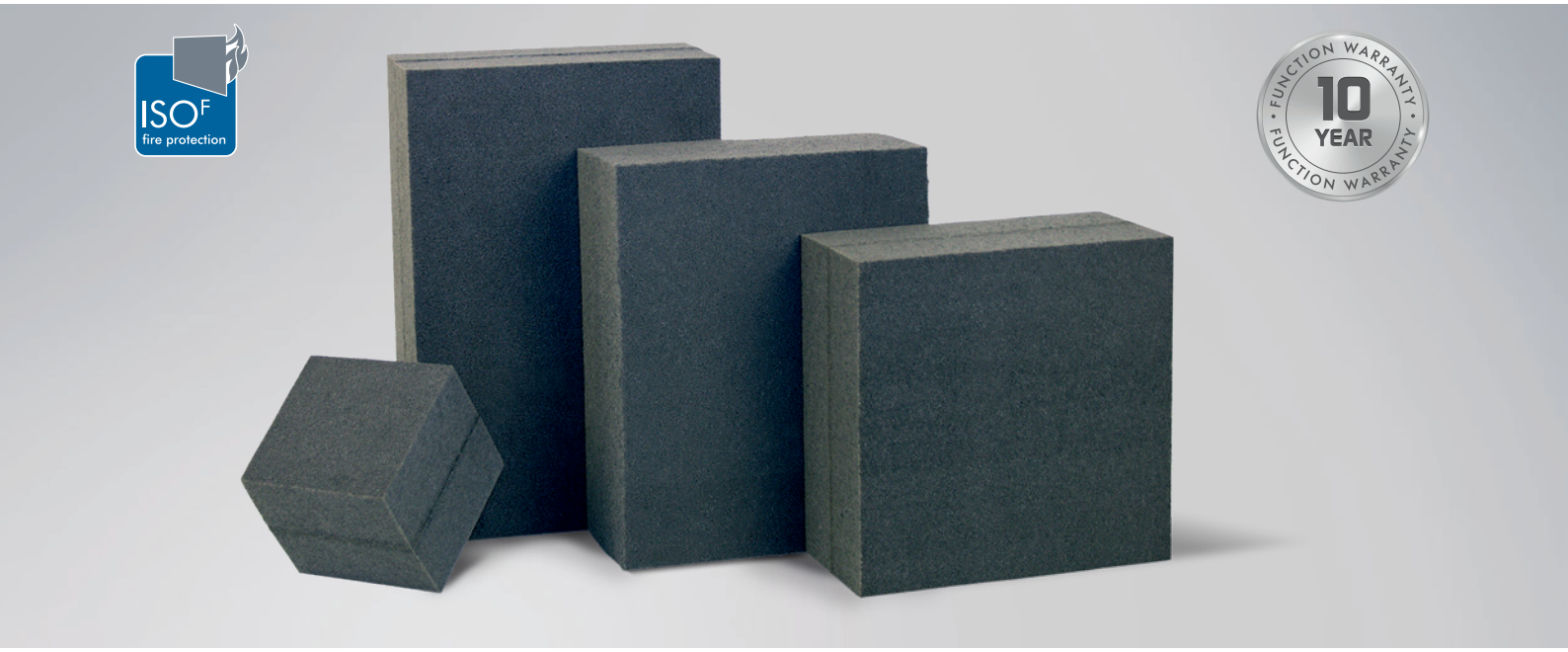
PRODUCT DATA SHEET

ISO-FLAME BRICK S 90

ISO CHEMIE
Use the blue technology.



PRODUCT DESCRIPTION

ISO-FLAME BRICK S 90 is a fire resistant impregnated PUR-high resilient foam form for fire-protection of single cables, cable bundles and pipes (service fire-stops). It is used in rectangular and irregular fire wall openings in accordance to DIN 4102 for the F-Classes S 30, S 60 and S 90. Its maximum fire resistance durability averages at 90 minutes.

APPLICATION

ISO-FLAME BRICK S 90 is certified for the fire-stop protection of wall and ceiling openings, when fire rating classification S 30, S 60 or S 90 is required, in accordance with DIN 4102 T.9. It is particularly suitable, due to it being totally fibre and dust free, for use in dirt sensitive areas. The spectrum of uses extends from fire protection walls and ceilings, of concrete, reinforced concrete, cellular concrete and brick-work to lighter partitioning walls.

The fitting of single cables, cable bundles, pipes and cable looms is simply done by cutting.

INSTALLATION

- coat either the wall aperture edges or the ISO-FLAME BRICK edges with ISO-FLAME KITT to bond the foam in place
- on ceiling openings both visible fire-stop surfaces are to be coated with ISO-FLAME KITT (this is optional on walls)
- the relevant building approval should be sort for using the ISO-FLAME BRICK S 90 as the services fire stop

PRODUCT ADVANTAGES

- quick and clean application without special tools (very economical)
- no preparation of the wall or ceiling opening necessary
- easy fitting of cables
- totally free from dust and fibres
- flexible application (temporary and permanent cable insulation
- toxic fume blocker
- no cracking due to permanent elasticity with high flexibility
- free from halogens and solvents
- 10 Year Function Warranty*

* On the conditions of the manufacturer (available on request).

Installation example: ISO-FLAME BRICK S 90

PFAS free!

Deutsches Institut für Bautechnik DIBt

PATENTED

ISO-Chemie GmbH \ Röntgenstraße 12 \ 73431 Aalen \ Germany \ Tel.: +49 (0)7361 94 90-0 \ Fax: +49 (0)7361 94 90 90
info@iso-chemie.com \ www.iso-chemie.com

ISO-FLAME BRICK S 90

Technical data: BRICK	Standard	Classification
Material description		fire resistant impregnated PUR-flexible foam
Colour		anthracite
Fire resistance durability in fire protection walls and ceilings	DIN 4102 T.9	S 90
General construction technique permit		aBG Z-19.53-2364
Handling temperature		+5 °C to +40 °C
Temperature stability range, dry		-40 °C to + 80 °C
Building material class	DIN 4102 T.1	B2
Dimension tolerance	DIN 7715 T5 P3	requirements fulfilled
Shelf life		1 year
Technical data: KITT	**Standard**	**Classification**
Material description		paste-like, endothermic fire protection compound
Colour		white
Density in g/cm³		approx. 1.34 to 1.48
Fire resistance durability in fire protection walls and ceilings	DIN 4102 T.9	S90 in combination with ISO-FLAME BRICK
Handling temperature		+5 °C to +25 °C
Drying time		dust-dry after approx. 4 h, completely dry depending on layer thickness after a maximum of 4 days
Shelf life		2 years

SYSTEM ACCESSORIES

- ISO-FLAME KITT – fire protection kitt (FLAMMOTECT-A) ablative fire protection compound (paste consistency) ETA-18/0237

PACKAGING ISO-FLAME KITT

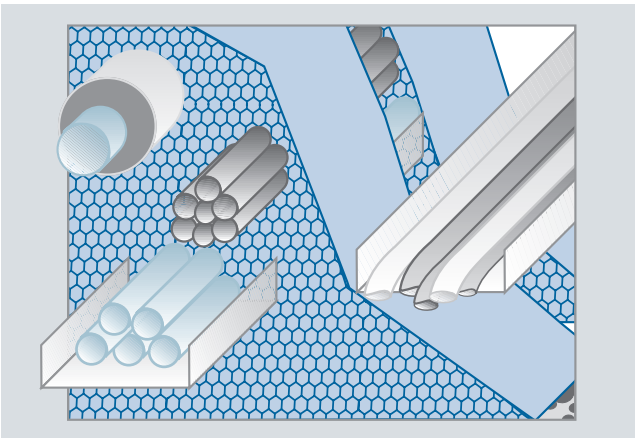
- buckets of 12.5 kg / 12 cartridges (of 310 ml) per box
- consumption depends on the installation situation

TECHNICAL APPROVAL

general construction technique permit through DIBt Berlin for S 90 aBG Z-19.53-2364

LxWxH = Ordner no.	Achieved F-Class*	Minimum wall and ceiling thickness	Bricks per carton
475x475x90 mm	up to S 90	100 mm (wall) and 150 mm (ceiling)	4
475x160x90 mm	up to S 90	100 mm (wall) and 150 mm (ceiling)	12
160x160x90 mm	up to S 90	100 mm (wall) and 150 mm (ceiling)	36

* For fire protection class S 90 the minimum thickness of the fire-stop is 200 mm. 2 bricks per opening must be installed. The size of the fire-stop should be maximum 95 % of the foam form.



Installation example: ISO-FLAME BRICK S 90

Fitting	Wall (mm)	Ceiling (mm)
Maximum size of the fire-stop rectangular irregular	 450x450 450x450	 450x450 -
Minimum distance to next fire-stop	100	100
Maximum amount of cables	60 %	60 %
Maximum cable diameter	30	30
Maximum metal duct diameter	114	54

The details and information given in this literature are based on best current knowledge. They are intended to serve as general information only and it is advised that the user conducts their own tests for their specific set of conditions to determine the suitability of the product for its proposed use. No warranty or liability is given or implied regarding any part of these instructions or details, or the completeness of the information. We reserve the right to modify, or change, the specifications and information without advance notification. All goods are supplied subject to our standard conditions of sales, copies of which are available upon request.

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