



FITHERM™ GB

Datasheet

European Technical Assessment
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Product description

Fitherm GB is a high-performance intumescent material based on expandable graphite. In case of fire Fitherm GB can expand to multiple times its original volume and forms a heat-isolating shield. Fitherm GB expands in all directions to fill gaps and cavities and builds a very effective barrier against fire and smoke. The water-resistant property enables it for use in areas with high humidity. Fitherm GB is a good choice for an intumescent material with proper performance at a very attractive price.

Fitherm GB strips can be laminated with a PVC foil in different colors, with a fiber glass layer or other materials, on the other side optional with a high quality self-adhesive for easy installation and durable fixing.

Technical data

Density:	approx. 1.25 g/cm ³ TO 1.3 g/cm ³
Expansion temperature:	starting from 200°C
Expansion factor:	up to 15-fold its original thickness
Expansion pressure:	approx. 0.5 N/mm ²
Color:	black

Typical Applications

- Fitherm GB is developed for a wide range of applications where an intumescent material is necessary to maintain the system integrity and insulation in case of fire. Typical applications are for example:
 - fire doors and shutters



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- partition walls
- glazing elements, ceilings and floors
- fire safes and document cabinets
- pipe penetrations and cable transit systems
- air grilles and dampers
- Fitherm GB works well in areas with high humidity and possible exposure to water.

Storage and Processing

Fitherm GB can be stored under normal room conditions without special care. During handling and processing the wearing of protective gloves is recommended.

Availability

Fitherm GB is available as flexible rolls in the following standard dimensions, other measures on request:

- **Thickness:** minimal 0.55 mm, 1 mm, 1.5 mm or 2 mm
- **Width:** 10 mm, 15 mm and 20 mm
- **Length:** 25 meter with or without self-adhesive backing
- Lamination with PVC foil in different colors or fiber glass cloth is possible. Encapsulation into PVC in different colors is available in a width of 10, 15, 20, 25, 30, 40 and 60 mm.

Note

The information in this document is based on our knowledge and experience to date. This information does not release the user from carrying out independent tests and trials due to the various influences when processing and applying our product. It is not possible to derive a guarantee of certain properties of suitability of the product in a concrete application case based on our information. All the descriptions, drawings, photographs, data, conditions, weight etc. included may change without previous announcement; they do not constitute the contractually agreed property of the product. The recipient of our product is responsible to observe any trademark rights and existing laws and regulations.