

# FIRE CLASSIFICATION

*aixFOAM material description*

**MH+++ / Flame retardant C-s2, d0 / DIN 4102 B1**

The DIN 4102 (fire behaviour of building materials and structural elements) substantiates the terms of the state regulations, the related executive orders as well as additional administrative regulations, which concern structural fire protection.

The German institute for standardisation, Deutsches Institut für Normung e.V. (DIN) is a privately owned service provider for standardisation in Germany. The DIN 4102- 1 test describes the fire behaviour of construction materials. Fulfilling the requirements of a B2-test is prerequisite for a B1-test.

DIN 4102-14 uses an example of a fire situation, where flames leap from an object located in a room with ceiling.

With this kind of exposure, the propagation of the flame may not extend significantly beyond the primary fire region; only a limited amount of heat may be released.

The following testing criteria must be fulfilled for the B1 test:

## Specimen

4 samples 1000 x 190 mm

## Sample Arrangement

Sample must be hung vertically in fire shaft. A minimum of 40 mm space from the top edge of the burner is required.

## Ignition Source

Square gas burner in vertical test cabinet with square profile, subjected to a constant flow of air from below while exhaust gas is drained from above.

## Flame Impingement Duration

10 mins

The data specified are average values which have been determined to the best of our knowledge. As these data may fluctuate within the defined specification, they are to be regarded as non-binding. Liability for damages and disadvantages of any kind are excluded. The data do not exempt the purchaser from carrying out his own tests and trials. We reserve the right to make technical changes and updates.



## Result

Undamaged residual length is a minimum 150 mm for all samples.

Damaged length is smaller than 85 cm.

Exhaust gas temperature is below 200°C.

Residual length measurements is not affected by subsequent annealing of samples. No observations of burning drip offs or dropping.

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## Our aixFOAM quality promise

Every acoustic project is unique. That's why we focus on you and your individual requirements. In a consultation oriented according to your needs, we will find the right sound insulation together. Our product range offers a wide selection of different sound absorbers in classic and unusual designs. As a manufacturing company, we are in a position to implement special dimensions and individual and series production on request.

We guarantee fair prices. Networking with proven partners and sophisticated logistics enable us to purchase sustainably, to keep delivery times short and to meet deadlines as closely as possible. This applies to deliveries both within and outside of Germany.



More about our aixFOAM sustainability principle here:  
[www.aixfoam.com/view/sustainability](http://www.aixfoam.com/view/sustainability)

### Quality standards according to DIN EN ISO 9001:2015

We believe that quality begins with the production. Therefore, we only use checked raw materials from Germany and the EU for our sound absorbers. In combination with modern manufacturing technology, particularly effective and durable products are created on a total of 6,000 m<sup>2</sup> of industrial space.

Tests by renowned institutes - such as the RWTH University in Aachen - guarantee that we always meet our high standards. This way you can rely on the best quality with every purchase. In addition, our quality management is regularly certified by TÜV Rheinland according to ISO standard 9001:2015.



More about our social commitment here: (currently only in German)  
[www.aixfoam.de/view/charity](http://www.aixfoam.de/view/charity)

### Sustainable environmental management according to DIN EN ISO 14001:2015

As a company, we are aware of our responsibility towards our society and the environment. For our successful environmental management, we received the ISO 14001:2015 certification for the first time in June 2021.



More about our innovations here:  
[www.aixfoam.com/view/think-tank](http://www.aixfoam.com/view/think-tank)

### aixFOAM think tank

Over 60 years of experience, numerous patents, utility models, designs and design patents, above-average customer satisfaction and top ratings on the consumer portal „Trusted Shops“ motivate us to continue to be there for you as a reliable and innovative partner in matters of sound insulation.

**Do you have questions about our products?  
We are here for you!**

**To contact us by phone** +49 (0)2403 / 83830 - 22

**Consulting & Sales** [sales@aixfoam.com](mailto:sales@aixfoam.com)

**Order processing** [office@aixfoam.com](mailto:office@aixfoam.com)

