

TECHNICAL DATA SHEET FIRE CLASSIFICATION

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Description

B1 CERTIFICATE DIN4102

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

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.



Management
System
ISO 9001:2015



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aixFOAM Acoustic Absorber in perfection

Do you have questions about our products or your order? We will gladly help you!

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Our aixFOAM® product range offers you individually-arranged complete solutions for soundproofing, technical acoustics and room acoustics, based on high-quality and effective acoustic foams.

Experience, top quality and an uncompromising commitment to our customers' desires: It depends on us. Since 1958, we've been systematically expanding and perfecting our main skill: manufacturing and refining acoustic foam. As a system supplier for foam materials, we specialize in the industrial manufacturing of professional products for sound insulation and noise control.

As a future-orientated partner in development of our customers, we are constantly expanding range of our products and investing in automatisations of the process and the most up-to-date CNC technologies.

Our extremely enthusiastic and engaged workforce commands an impressive expertise. An above average level of education and many years of experience in the field of acoustics and sound absorbers form the basis for smoothly creating high-quality custom aixFOAM special solutions. Networking with flexible renowned logistics partners, and a sophisticated logistics, offer our customers sustainable shopping, and allow us short delivery times and maximum adherence to the delivery date. This applies to deliveries both within and outside of Germany.

At the newly remodeled location near to Aachen, aixFOAM demonstrated its high technical competence on a total of 6,000 m² of commercial space. All our assorted products are manufactured here, using optimized processes and manufacturing methods. Carefully selected raw materials in nearly all diversifications are a pre-requisite for our extensive spectrum of creative and economic problem solutions.



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