

DAMTEC® sonic FiRe is a special flame-retardant building protection mat in accordance with DIN 18531 for impact sound insulation on roof terraces, balconies, loggias and arcades. **DAMTEC® sonic FiRe** has a flame-retardant finish which contributes to a considerable reduction in the fire load on flat roofs, balconies and loggias. **DAMTEC® sonic FiRe** is a Broof (t1) classified building protection mat for impact sound insulation in outdoor areas, which is considered a "hard roofing" that is resistant to flying sparks and radiant heat. For this purpose, **DAMTEC® sonic FiRe** is laid in classic constructions with concrete slabs in chippings bedding and thermal insulation by PIR, EPS or XPS (warm and inverted roof).

Material

Material:

Polyurethane-bonded recycled rubber granulate (may have slight scent typical of rubber) with flame-retardant finish.

Product design

Colour: black with blue colour particles
Surface: grain-textured

Dimensions / Tolerances / Weight

Length (roll-form mats): 8000mm (± 1.5 %)
Width (roll-form mats): 1250mm (± 1.5 %)
Thickness (roll-form mats): 8mm (± 1 mm)
Density: approx. 780kg/m³
Area weight: approx. 6,24kg/m²

The product data sheet is not subject to any change service! All information is without guarantee.

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Product Testing

Tensile strength:	0,3N/mm ² (DIN EN ISO 1798)
Elongation at break:	30% (ISO 1798)
Fire resistance:	Cfl S1 (DIN EN 13501-1) Broof (t1) (DIN EN 13501-5)
Service temperature range:	-30° to 80°C
Chemical resistance:	conditionally resistant to acids and bases
Environmental resistance:	rot-proof and water-resistant
Compression under traffic load:	to 8mm: approx. 17 t/m ² at 10% compressive strain approx. 32 t/m ² at 15% compressive strain approx. 47 t/m ² at 20% compressive strain (in accordance with DIN EN ISO 3386-2)
Water permeability:	given by open pores
Water drainage capacity:	Water drainage capacity: at hydraulic gradient $i = 0.01$: 1.2 t/m ² load: 0.21 L/(m·s) 8.0 t/m ² load: 0.16 L/(m·s) at hydraulic gradient $i = 0.02$: 1.2 t/m ² load: 0.32 L/(m·s) 8.0 t/m ² load: 0.24 L/(m·s) (test data in combination with 40mm grit bed (2/8)) (in accordance with DIN EN ISO 12958)
Frost-resistant:	yes
Coefficient of thermal expansion:	approx. $10 \times 10^{-5} / ^\circ\text{C}$ (test method based on DIN EN 13471)
Expansion due to humidity:	min. 2% (depending on humidity and situation of installation)
Water vapour permeability:	$s_d = 1\text{m}$ thickness of vapour-diffusion equivalent air layer
Compatibility:	Must be approved by the roofing membrane manufacturer

The product data sheet is subject to any change service and without liability. The product is resistant to DIN EN 1297 and DIN EN ISO 3386-2.
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Sound Insulation:

*The equivalence of the products DAMTEC® sonic and **DAMTEC® sonic FiRe** was confirmed by a comparative measurement.

The measured values were obtained with the complete specified layer structure in a laboratory measurement. (in accordance with ISO 10140).

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The results can be found in the technical document for architects and planners "DAMTEC_sonic_D_v1_2023".

Note:

The impact sound improvement values of the special building protection mat DAMTEC® sonic were determined in conjunction with the classic roof terrace structures listed in the technical brochure. The measurements were carried out on solid concrete floors and wooden beam ceilings, among others, and are valid for these ceilings.

DAMTEC® sonic is only intended for outdoor use.

These values are not individually valid for the mat and cannot be transferred to other floor constructions.

Certifications:



Broof-t1, Cfl-s1

Installation

Install in accordance with the DAMTEC® sonic installation instructions.

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Other

Disclaimer:

We want to use this information to advise you to the best of our knowledge and belief on the basis of our tests and experience. However, KRAIBURG Relastec GmbH & Co. KG cannot provide a guarantee for KRAITEC® products for the laying results in individual cases due to the wide range of application possibilities and the storage, laying and construction site conditions, which are outside our influence. You should carry out your own tests. Our technical service would be pleased to assist you.