

1. General notice

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 verandas.

The impact sound improvement values of the special building protection mat **DAMTEC® sonic FiRe** were measured in conjunction with the classic roof terrace structures listed under point 4. All measurements were carried out on solid ceilings and are valid for these (in accordance with DIN 4109 Supplement 1, Table 11).

DAMTEC® sonic FiRe is only intended for outdoor areas. These values are not individually valid for the mat and cannot be applied to other floor structures.

DAMTEC® sonic FiRe building protection sections must be covered (loaded) with the planned layer structure immediately after they are installed, to avoid undesired dimensional changes due to stress relaxation and thermal expansion or contraction.

DAMTEC® sonic FiRe can be cut with a commercial cutter. When cutting, make sure that the existing layers are not damaged!

2. Installation

The surface to be protected must be swept clean. Only a single-layer installation with the **DAMTEC® sonic FiRe** structural protection mat is intended. The mat is placed with an overlap of 5 cm in width and 10 cm in length (head end overlap). For inverted roofs the mats are installed without overlap, but with a joint of 10 mm. The joints are taped over on the dry **DAMTEC® sonic FiRe** mat with a butyl adhesive tape (laminated aluminium/PE composite film). The sections must always be laid transverse to the longer dimension of an area, and in this process arranged offset in the composite. Generally accepted engineering practice in Germany must be complied with.

DAMTEC® sonic FiRe must be installed in the connecting area and for all ascending structural components, to the upper edge of the layer that will be applied.

The possibility of standing water must be excluded, constant water drainage must be ensured. A slope of at least 2% is required.

3. Bitumen sheeting and plastic sheeting

No incompatibilities whatsoever are known between **DAMTEC® sonic FiRe** and bitumen sheeting.

There can be an incompatibility between **DAMTEC® sonic FiRe** and plastic waterproofing. A suitable separating layer must be used in accordance with generally accepted engineering practice or the specifications of the manufacturer of the roofing felt.

4. Point and line loads

For point and line loads, the building protection layer must be cut into suitable pieces or strips and used. This type of load includes, for example, pedestal bearings, bearing timbers, individual constructions (superstructures such as air conditioning systems), etc. In the case of special constructions, the manufacturer must be consulted.

5. Measured structures

Impact sound improvement: The measured values were obtained in a laboratory measurement with the complete layer structure specified. (based on ISO 10140)
The results can be found in the technical document for architects and planners

„DAMTEC_sonic_D_v1_2023“.

Please note: The impact sound improvement values of the special building protection mat **DAMTEC® sonic FiRe** 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 FiRe** is only intended for outdoor use. These values are not individually valid for the mat and cannot be transferred to other floor structures.

DISCLAIMER:

With our information we desire to advise you to the best of our knowledge and belief based on our trials and experiences. However, KRAIBURG Relastec GmbH & Co. KG cannot accept a warranty for the processing result in the specific case, due to the variety of use possibilities, and the storage, processing, and construction site conditions for our KRAITEC® products that are beyond our control. The customer must execute his own tests. Our technical customer service organization is available to you.