

1. General information

DAMTEC® sonic drain plus is a profiled fleece-laminated drainage protection mat for impact sound insulation with a high drainage effect for terraces, balconies and loggias.

The impact sound improvement values of the special drainage protection mat **DAMTEC® sonic drain plus** were measured in combination with the classic roof constructions described in section 4. All measurements were conducted on solid roofs and are valid for these (according to DIN EN ISO 10140-1).

DAMTEC® sonic drain plus is intended for outdoor areas only. These values of the individually tested roof constructions cannot be applied to other types of constructions.

DAMTEC® sonic drain plus must be covered (weighted down) with the planned layer construction immediately after installation to avoid unwanted changes in dimensions as a result of atmospheric influences and production-related expansion.

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

2. Installation

The surface must be swept clean. Only a single 1-layer installation with **DAMTEC® sonic drain plus** is provided for. The sheets are installed end to end and overlapped with the factory fleece overhang. To prevent sound bridges, gravel must be prevented from entering the impact sound insulation layer. Please be advised that a fixing of overlaying fleece with adhesive tape is recommended.

The sheets are always installed crosswise to the longer dimension of a surface and arranged with offset joints, in accordance with the generally recognized codes of practice and the specific national regulations.

DAMTEC® sonic drain plus should be built upward in the connecting area and with all rising components at least to the top edge of the finished floor. For slanting build-up

DAMTEC® sonic drain plus should be provided with wedges in the supporting construction under the roof structure.

Do not permit water accumulation on or under the mats, i.e. ensure adequate water drainage (at least 2% slope).

3. Bitumen waterproof sheeting and plastic waterproofing materials

We are aware of no incompatibilities between **DAMTEC® sonic drain plus** and bitumen waterproof sheeting.

It is possible that **DAMTEC® sonic drain plus** may be incompatible with some plastic waterproof coverings. A suitable separating layer must be used in accordance with the codes of practice and/or the specifications of the roof sheeting manufacturer.

4. Measured structures

Inverted roof	
Roofmate SL-X 160 mm	Waterproofing: PVC roofing membranes
Impact sound improvement	$\Delta L_w = 37 \text{ dB}$
Installation height (approx.)	265 mm
Layer structure (top to bottom)	<ul style="list-style-type: none"> - Concrete sidewalk slabs 50/50/5 cm - Gravel bed 2/8 (d = 4 cm) - Non-woven filter - Insulation: Roofmate SL-X (160 mm) - DAMTEC® sonic drain plus - Separating layer: Polyester fleece 300 g/m² - Waterproofing: PVC roofing felt 1.5 mm

DAMTEC® sonic drain plus Fleece-laminated drainage protection mat for impact sound insulation in the system

Installation instructions: no. 9216- R - 03
Rev.: February 2018

Non-ventilated roof		
PIR insulation 140 mm	Waterproofing: Bituminous roofing membranes	Waterproofing: PVC roofing membranes
Impact sound improvement	$\Delta L_w = 36 \text{ dB}$	$\Delta L_w = 41 \text{ dB}$
Installation height (approx.)	250 mm	245 mm
Layer structure (top to bottom)	<ul style="list-style-type: none"> - Concrete sidewalk slabs 50/50/5 cm - Gravel bed 2/8 (d = 4 cm) - DAMTEC® sonic drain plus - Upper layer: PYE PV 200 S 5, slate - 1. Waterproofing layer: G 200 S 4, powder - Insulation: PIR FA WLS 024 (140 mm) - Bitumen vapor barrier: V 60 S 4 + Al 	<ul style="list-style-type: none"> - Concrete sidewalk slabs 50/50/5 cm - Gravel bed 2/8 (d = 4 cm) - DAMTEC® sonic drain plus - Separating layer: Polyester fleece 300 g/m² - Waterproofing: PVC roofing felt 1.5 mm - Rough glass fleece 120 g/m² - Insulation: PIR FA WLS 024 (140 mm) - Bitumen vapor barrier: V 60 S 4 + Al

EPS insulation 200 mm	Waterproofing: Bituminous roofing membranes	Waterproofing: PVC roofing membranes
Impact sound improvement	$\Delta L_w = 39 \text{ dB}$	$\Delta L_w = 41 \text{ dB}$
Installation height (approx.)	310 mm	305 mm
Layer structure (top to bottom)	<ul style="list-style-type: none"> - Concrete sidewalk slabs 50/50/5 cm - Gravel bed 2/8 (d = 4 cm) - DAMTEC® sonic drain plus - Upper layer: PYE PV 200 S 5, slate - 1. Waterproofing layer: G 200 S 4, powder - Laminate layer: G 200 DD, sand - Insulation: EPS 035/200 KPA DAA DH (200 mm) - Bitumen vapor barrier: V 60 S 4 + Al 	<ul style="list-style-type: none"> - Concrete sidewalk slabs 50/50/5 cm - Gravel bed 2/8 (d = 4 cm) - DAMTEC® sonic drain plus - Separating layer: Polyester fleece 300 g/m² - Waterproofing: PVC roofing felt 1.5 mm - separating layer: Rough glass fleece 120 g/m² - Insulation: EPS 035/200 KPA DAA DH (200 mm) - Bitumen vapor barrier: V 60 S 4 + Al

Exclusion of liability:

With our information we desire to advise you to the best of our knowledge and belief based on our tests 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.

These installation instructions are not subject to change management! No liability accepted for errors or omissions. The current valid version can be called up at www.kraiburg-relastec.de/kraitec