

1. General notice

DAMTEC® sonic is designed as a structural protection mat with impact sound insulation for terraces, balconies and verandas.

The impact sound insulation values of the special **DAMTEC® sonic** structural protection mat has been compiled in conjunction with the classic roof terrace structures listed under point 4. All measurements were taken on solid floors and are valid for these floors (in accordance with DIN 4109 supplemental sheet 11).

DAMTEC® sonic 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 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 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** 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** 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 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** and bitumen sheeting.

There can be an incompatibility between **DAMTEC® sonic** 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. Measured structures

Warm roof		
PIR insulation 140 mm	Waterproofing: Bituminous roofing membranes	Waterproofing: PVC roofing membranes
Impact sound insulation improvement	$\Delta L_w = 34$ dB	$\Delta L_w = 37$ dB
Built-up height (approx.)	250 mm	245 mm
Layer structure (top to bottom)	<ul style="list-style-type: none"> - Concrete pavers 50/50/5 cm - Grit bed 2/8 (d = 4 cm) - DAMTEC® sonic - 2nd waterproofing layer: PYE PV 200 S 5, slate-coated - 1st waterproofing layer: G 200 S 4, talcum-coated - Insulation: PIR FA WLS 024 (140 mm) - Bitumen vapour barrier: V 60 S 4 + Al 	<ul style="list-style-type: none"> - Concrete pavers 50/50/5 cm - Grit bed 2/8 (d = 4 cm) - DAMTEC® sonic - Separating layer: Polyester fleece 300 g/m² - Waterproofing: Soprema Flagon SR 150 - Insulation: PIR FA WLS 024 (140 mm) - Bitumen vapour barrier: V 60 S 4 + Al

Warm roof		
EPS insulation 200 mm	Waterproofing: Bituminous roofing membranes	Waterproofing: PVC roofing membranes
Impact sound insulation improvement	$\Delta L_w = 32$ dB	$\Delta L_w = 37$ dB
Built-up height (approx.)	310 mm	305 mm
Layer structure (top to bottom)	<ul style="list-style-type: none"> - Concrete pavers 50/50/5 cm - Grit bed 2/8 (d = 4 cm) - DAMTEC® sonic - 2nd waterproofing layer: PYE PV 200 S 5, slate-coated - 1st waterproofing layer: G 200 S 4, talcum-coated - Laminated layer: G 200 DD, sanded - Insulation: EPS 035/200 KPA DAA DH (200 mm) - Bitumen vapour barrier: V 60 S 4 + Al 	<ul style="list-style-type: none"> - Concrete pavers 50/50/5 cm - Grit bed 2/8 (d = 4 cm) - DAMTEC® sonic - Separating layer: Polyester fleece 300 g/m² - Waterproofing: Soprema Flagon SR 150 - Separating layer: Raw glass fleece 120 g/m² - Insulation: EPS 035/200 KPA DAA DH (200 mm) - Bitumen vapour barrier: V 60 S 4 + Al

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DAMTEC® sonic

Structural protection and impact sound insulation

Installation Instructions no. 9215 - R - 06
Edition: November 2018

Inverted warm roof		
XPS insulation 160 mm	Waterproofing: Bituminous roofing membranes	Waterproofing: PVC roofing membranes
Impact sound insulation improvement	$\Delta L_w = 35 \text{ dB}$	$\Delta L_w = 30 \text{ dB}$
Built-up height (approx.)	270 mm	265 mm
Layer structure (top to bottom)	<ul style="list-style-type: none"> - Concrete pavers 50/50/5 cm - Grit bed 2/8 (d = 4 cm) - Filter fleece - Insulation: Roofmate™ SL-X WLG 031 (160 mm) - DAMTEC® sonic - 2nd waterproofing layer: PYE PV 200 S 5, slate-coated - 1st waterproofing layer: G 200 S 5, talcum-coated 	<ul style="list-style-type: none"> - Concrete pavers 50/50/5 cm - Grit bed 2/8 (d = 4 cm) - Filter fleece - Insulation: Roofmate™ SL-X WLG 031 (160 mm) - DAMTEC® sonic - Separating layer: Polyester fleece 300 g/m² - Waterproofing: Soprema Flagon SR 150

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.

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