

DAMTEC[®] sonic drain plus

Produktdatenblatt Nr. 9216 - R - 02

Issue: February 2019

DAMTEC[®] sonic drain plus is a special structural protection and drainage mat with an additional geotextile surface in accordance with DIN 18531 for impact sound protection on roof terraces, balconies and loggias. DAMTEC[®] sonic drain plus is installed in classic constructions with concrete slabs on a gravel bed and thermal insulation by means of PIR, EPS or XPS (warm and inverted roof).

Material

Material:

Recycling-based rubber granulates bonded with PU elastomer.

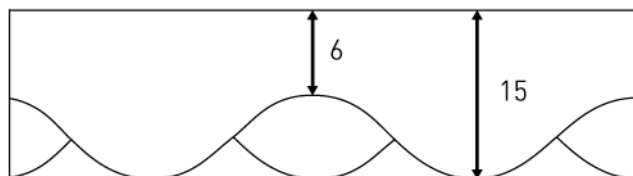
Product design

Colour:	black with blue colour particles
Surface:	fleece-laminated
Lower side:	Granulate structure, with profile

Dimensions / Tolerances / Weight

Length (roll-form mats):	8,0 m ± 1,5 %
Width (roll-form mats):	1200 mm ± 1,5 %
Thickness (roll-form mats):	15/6 mm ± 1,0 mm

Profile:



Density:	Approx. 700-800 kg/m ³
Area weight:	7,5 kg/m ²

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page 1 of 5

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Product Testing

Tensile strength:	approx. 0,3 N/mm ² (DIN EN ISO 1798)
Elongation at break:	approx. 30% (DIN EN ISO 1798)
Fire resistance:	Efl (B2) (DIN EN 13501-1)
Service temperature range:	-30° to 80°C
Compression under traffic load:	ca. 0,95 t/m ² at 10% compressive strain ca. 1,88 t/m ² at 15% compressive strain ca. 3,18 t/m ² at 20% compressive strain (In accordance with DIN EN ISO 3386-2)
Dynamic stiffness:	$s' \approx 22 \text{ MN/m}^3$ (DIN EN 29052-1)
Water permeability:	given by open pores
Coefficient of thermal expansion:	ca. $10 \times 10^{-5} / ^\circ\text{C}$ (test method based on DIN EN 13471) = 1 mm length change per 1000 mm for $\Delta T = 10 \text{ K}$
Thermal conductivity:	$R = 0,207 \text{ m}^2\text{K/W}$ (EN 12664:2001)
Heat transfer coefficient:	$\lambda = 0,07 \text{ W/mK}$
Expansion due to humidity:	min. 2% (depending on humidity and situation of installation)
Compressibility:	$c \leq 2 \text{ mm}$ (DIN EN 12431)
Impact sound insulation:	

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page 2 of 5

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The measured values have been compiled with the complete specified layer structure in laboratory measurements. (in accordance with ISO 10140)

Non-ventilated roof		
PIR-Insulation (140mm)	Waterproofing: Bituminous roofing membranes	Waterproofing: PVC roofing membranes
Impact sound insulation improvement	$\Delta L_w = 36$ dB	$\Delta L_w = 41$ 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 (200mm)	Waterproofing: Bituminous roofing membranes	Waterproofing: PVC roofing membranes
Impact sound insulation improvement	$\Delta L_w = 39$ dB	$\Delta L_w = 41$ 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, sanded - 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

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page 3 of 5

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Inverted warm roof	
Roofmate SL-X (160mm)	Waterproofing: PVC roofing membranes
Impact sound insulation improvement	$\Delta L_w = 37$ dB
Installation height (approx.)	265 mm
Layer structure (top to bottom)	<ul style="list-style-type: none"> - Concrete pavers 50/50/5 cm - Gravel layer 2/8 (d = 4 cm) - Filter Fleece - Insulation: Roofmate™ SL-X WLG 031 (160 mm) - DAMTEC® sonic drain plus - Separating layer: Polyester fleece 300 g/m² - Waterproofing: PVC-layer 1,5mm

Water drainage capacity:

Test direction: MD Hard/hard	Hydraulic Gradient $i=0,010$	Hydraulic Gradient $i=0,020$
2 kPa	0,143 l/(m·s)	0,228 l/(m·s)
15 kPa	0,078 l/(m·s)	0,129 l/(m·s)
50 kPa	0,008 l/(m·s)	0,018 l/(m·s)

(DIN EN ISO 12958* 08.2010)

Water permeability:

	Coefficient of water permeability k_v , const. at 20°C	Permittivity At 20°C
2 kPa	0,0049 m/s	0,29 1/s
20 kPa	0,0036 m/s	0,25 1/s
200 kPa	0,0010 m/s	0,11 1/s

(DIN 60500-4)

Installation

Installation is executed in accordance with the **DAMTEC® sonic drain plus** installation instructions.

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page 4 of 5

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.