SDG

STRONGER TOGETHER

CONSTRUCTION ACCESSORIES

UNDER SCREED ACOUSTIC **DATASHEET**

ESSENTIAL COMPONENTS FOR EVERY STAGE OF CONSTRUCTION

DAMTEC® Project
DC Tower Vienna, Austria

DAMTEC® ACOUSTIC INSULATION

FEATURES AND BENEFITS

KRAIBURG Relastec has specialised in the manufacturer of high-quality and effective products for sound and vibration insulation for decades. They are a competent partner for acoustic and vibration insulation products made of recycled rubber granules and for determining the most effective sound insulation measures. DAMTEC® products are quickly and easily installed directly under screeds and offer an impressive range of technical characteristics as a solution for a wide range of applications.

FEATURES AND BENEFITS:

- with European Technical Approval (CE label)
- brilliant noise insulation with a low panel thickness
- outstanding compressive strength and load-bearing performance
- permanently elastic
- highest resiliency even after years of use (does not compress and reduce sound absorption)
- very low emission
- waterproofed and rot-proofed
- very environment-friendly, recycled rubber can be recycled again
- fast and easy installation

EXAMPLE OF USE:

- Production halls and depots
- Shopping centres
- Concert halls, cinemas
- Fitness centers
- Public buildings
- Schools, training centers
- Recording studios
- Acoustic test laboratories
- Hotels

MADE IN GERMANY

DAMTEC® Project
Super market, Vienna, Austria

DAMTEC® ACOUSTIC INSULATION

FEATURES AND BENEFITS

High pressure load capacity, elasticity and fast and easy installation are only a few of the outstanding properties of our impact sound insulation products. Another major advantage of **DAMTEC®** rubber mats is the low thickness of 4mm to 17mm for low installation heights. This allows planners to save heights in new buildings or adapt to given conditions in the case of renovation. In situations with high requirements for impact sound insulation our **DAMTEC®** screed insulation products are ideal for use in residential, industrial and commercial buildings. Rubber granules also guarantee a long life without material fatigue.

Product	ΔL_w	max. continous load	dynamic stiffness
DAMTEC® estra	⩽ 21 dB	0.20 N/mm²	⩽ 90 MN/m³
DAMTEC® estra 3D 8/4	⩽ 26 dB	0.10 N/mm²	< 20 MN/m³
DAMTEC® system	⩽ 21 dB	0.05 N/mm²	⩽ 35 MN/m³
DAMTEC® 3D 17/8	⩽ 30 dB	0.10 N/mm²	< 15 MN/m³
DAMTEC® wave 3D 8/4	⩽ 30 dB	0.02 N/mm²	< 18 MN/m³
DAMTEC® wave 3D 17/8	⩽ 39 dB	0.02 N/mm²	< 10 MN/m³

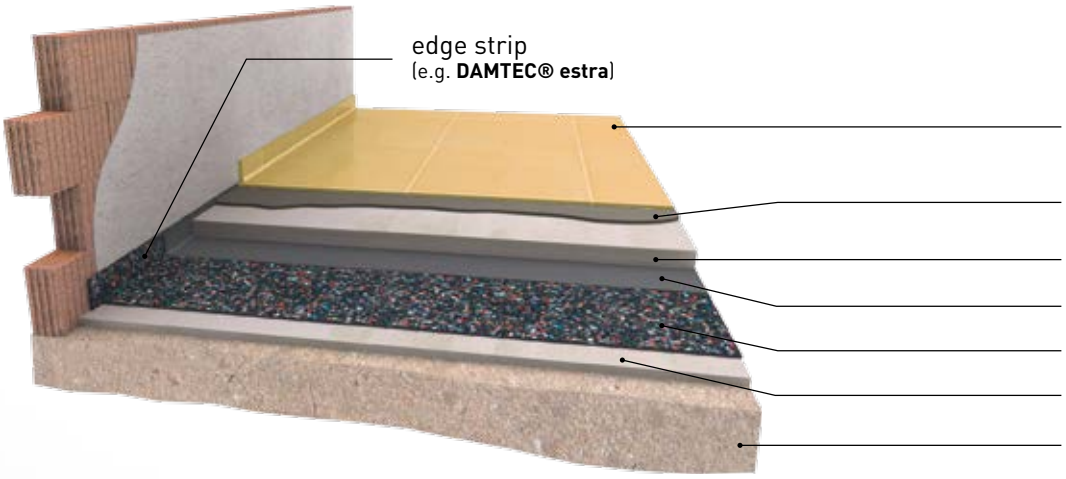
Value for impact sound improvement ΔL_w and dynamic stiffness depends on material thickness and kind of screed.

TAKE ADVANTAGE OF THE SPECIALISTS FOR ACOUSTIC INSULATION:

We would be happy to assist you by selecting the correct product for your requirements. According to the impact sound requirements, existing or planned floor systems / floor finishes and required screed thicknesses, we are at your disposal for any application-specific consulting to achieve the optimal impact sound insulation. In the field of large-scaled industrial projects, we are also happy to measure the impact sound improvement in connection with **DAMTEC®** products on-site. Simply talk to us.

DAMTEC® estra

IMPACT SOUND IMPROVEMENT UNDER SCREED: ⩽ 21 dB



Technical data	
Material	Granules of recycled rubber with PU elastomer bonding agent
Area weight	**4mm**: 2,580 - 3,160 g/m²; **6mm**: 3,870 - 4,730 g/m² **8mm**: 5,160 - 6,310 g/m²
Thickness	4, 6 or 8 mm (± 0.3 mm)
Roll width	1,250 mm (± 1.5 %)
Roll length	on request (± 1.5 %)
Surface	smooth with granular structure
Colour	black / multicoloured
Maximum pressure	0.20 N/mm² (in accordance with EN 826)
Dynamic stiffness	4 mm < 90 MN/m³, 6 mm < 70 MN/m³ 8 mm < 60 MN/m³ (EN 29052)
Service temperature range	-30° up to + 80° C
Impact sound improvement ΔL_w	19 dB for 6 mm (under 35 mm screed, 70 kg/m²) 20 dB for 6 mm (under 55 mm screed, 110 kg/m²) 21 dB for 8 mm (under 55 mm screed, 110 kg/m²)

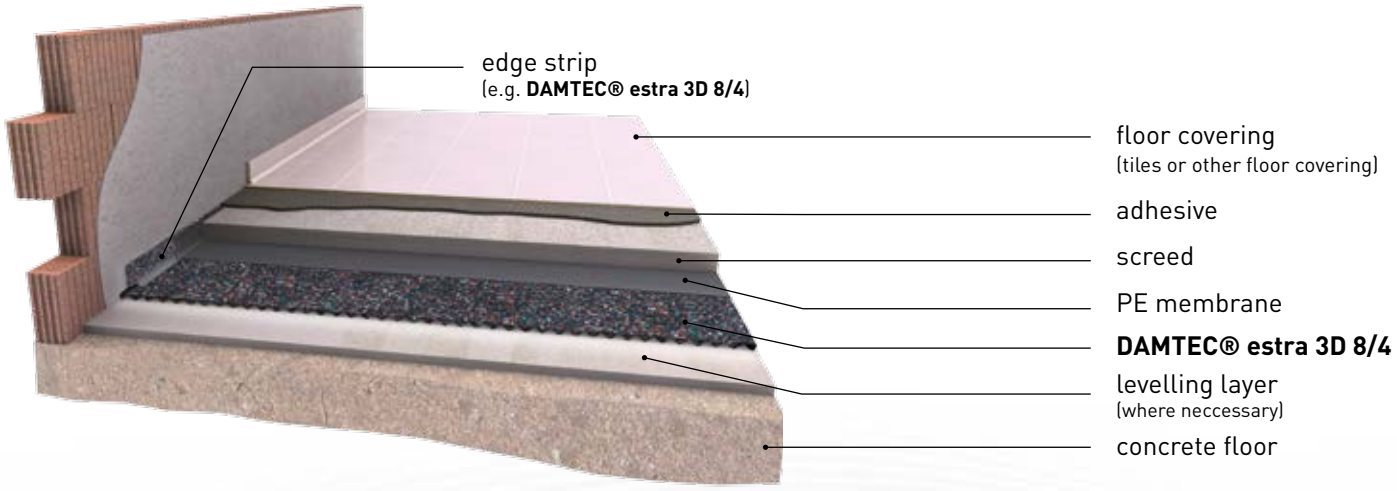
CE

ETA - 13/0342

MADE IN GERMANY

DAMTEC® estra 3D 8/4

IMPACT SOUND IMPROVEMENT UNDER SCREED: ⩽ 26 dB



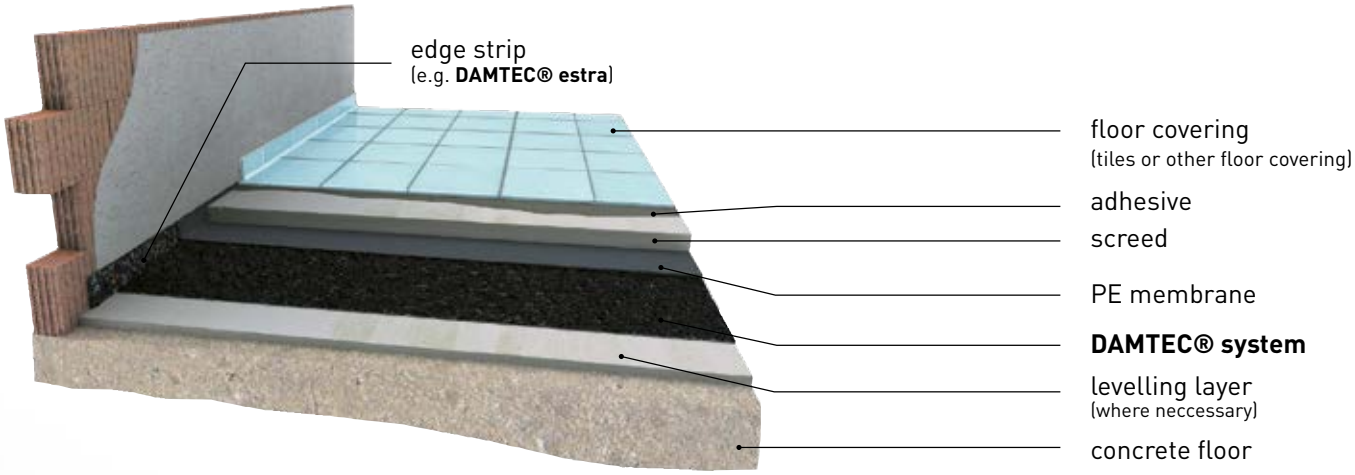
Technical data	
Material	Granules of recycled rubber with PU elastomer bonding agent
Area weight	3,800 - 4,800 g/m²
Thickness	8/4 mm (± 1.0 mm)
Roll width	1,250 mm (± 1.5 %)
Roll length	on request (± 1.5 %)
Surface	smooth with granular structure
Lower side	wave profile
Colour	black / multicoloured
Maximum pressure	0.10 N/mm² (in accordance with EN 826)
Dynamic stiffness	8/4 mm < 20 MN/m³ (EN 29052)
Service temperature range	-30° up to + 80° C
Impact sound improvement ΔL_w	22dB (under 50mm screed, 120kg/m²) 26dB (under 80mm screed, 179kg/m²)

CE

ETA - 13/0572

DAMTEC® system

IMPACT SOUND IMPROVEMENT UNDER SCREED: ⩽ 21 dB single layer, ⩽ 26 dB dual layer



Technical data	
Material	two-layer compound with rubber granules and rubber mat with PU elastomer bonding agent
Area weight	2600 - 3600 g/m²
Thickness	approx. 6 mm (± 0.3 mm)
Roll width	1,000 mm (± 1.5 %)
Roll length	10,000 mm (± 1.5 %)
Surface	open, loose granular texturing
Lower side	smooth with fine granular texturing
Colour	black
Maximum pressure	0.05 N/mm² (in accordance with EN 826)
Dynamic stiffness	6 mm < 35 MN/m³ (EN 29052)
Service temperature range	-30° up to + 80° C
Impact sound improvement ΔL_w	21 dB single layer (under 55 mm screed, 110 kg/m²) 26 dB dual layer (under 55 mm screed, 110 kg/m²)

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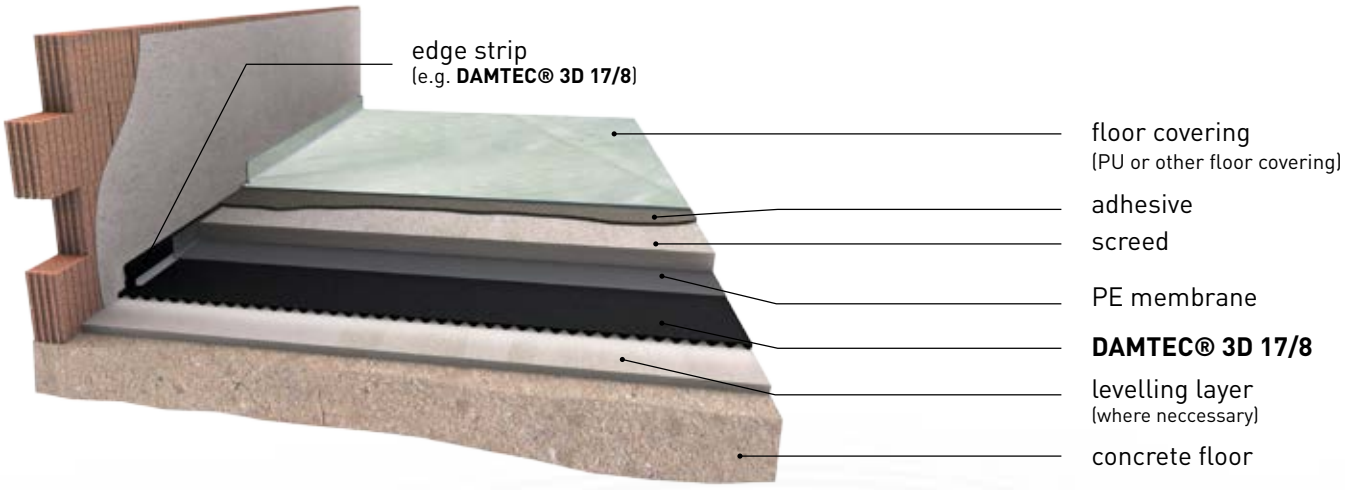
ETA - 13/0375

MADE IN GERMANY

DAMTEC® 3D 17/8

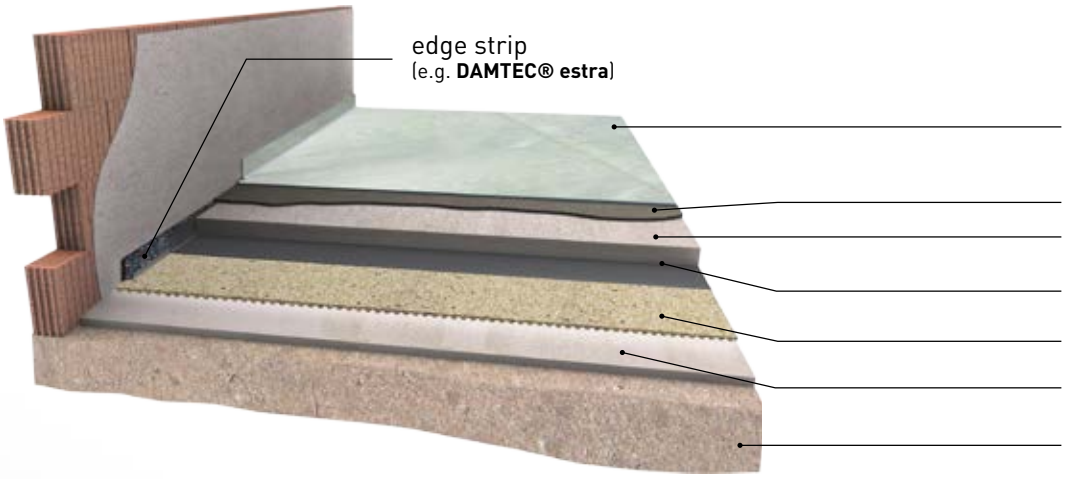
IMPACT SOUND IMPROVEMENT UNDER SCREED: ⩽ 30 dB single layer, 32 dB dual layer



Technical data	
Material	High-grade granules and fibres of recycled rubber with PU elastomer bonding agent
Density	500 - 600 kg/m³
Area weight	5.8 - 8.0 kg/m²
Thickness	17/8 mm (± 1.0 mm)
Roll width	1,250 mm (± 1.5 %)
Roll length	8,000 mm (± 1.5 %)
Surface	granular texture
Lower side	wave profile
Colour	black
Maximum pressure	0.1 N/mm²
Dynamic stiffness	17/8 mm 15 MN/m³ (EN 29052)
Service temperature range	-40° up to + 80° C
Impact sound improvement ΔL_w	26 dB single layer (under 55 mm screed, 106 kg/m²) 32 dB dual layer (under 60 mm screed, 72 kg/m²) 30 dB single layer (under 80 mm screed, 179 kg/m²)

DAMTEC® wave 3D 8/4

IMPACT SOUND IMPROVEMENT UNDER SCREED: ⩽ 30 dB



Technical data	
Material	compound of high-grade recycled polyurethane foam and cork with PU elastomer bonding agent.
Density	300 - 400 kg/m³
Area weight	1.50 - 2.80 kg/m²
Thickness	8/4 mm
Roll width	1,250 mm (± 1.5 %)
Roll length	8,000 mm (± 1.5 %)
Surface	fine granular texture
Lower side	wave profile
Colour	beige/brown (Change in colour due to sunlight. This has no influence on quality and technical values)
Tensile strength	approx. 0.4 N/mm² (ISO 1798)
Elongation at break	approx. 40% (ISO 1798)

Technical data	
Dynamic stiffness	18 MN/m³
Maximum pressure	0.02 N/mm²
Service temperature range	-30° up to + 80° C
Fire behaviour	E_{fl} (ISO 11925/EN 13501)
Impact sound improvement ΔL_w	30 dB (under 80 mm screed, 179 kg/m²) 25dB (under 50mm screed, 99kg/m²)

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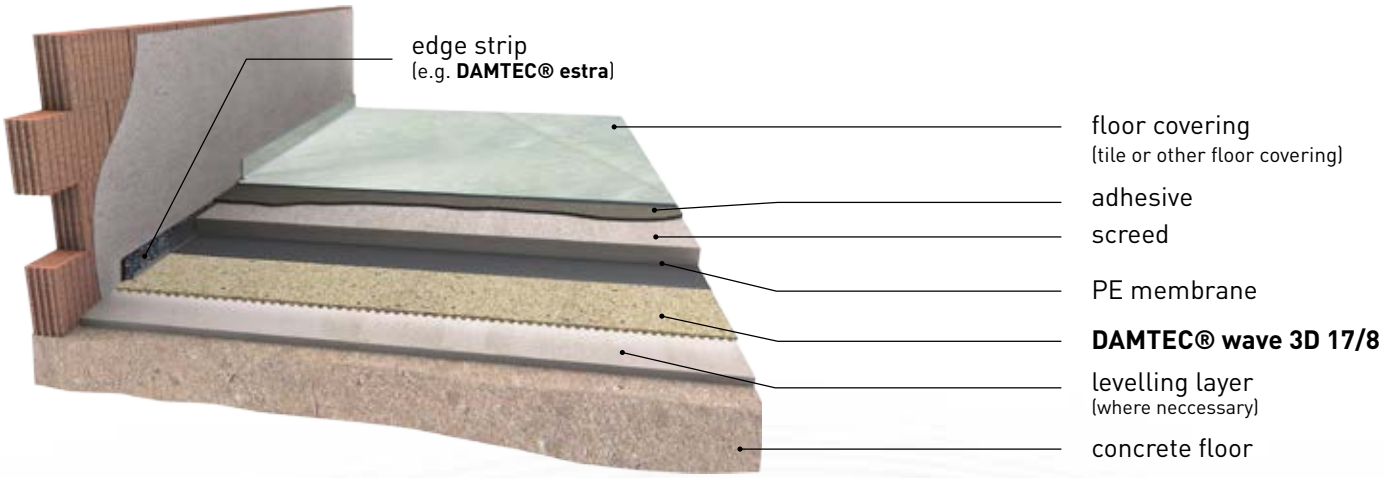
ETA - 15/0358

MADE IN GERMANY

DAMTEC® wave 3D 17/8

IMPACT SOUND IMPROVEMENT UNDER SCREED: ⩽ 35 dB single layer, ⩽ 39 dB dual layer



Technical data	
Material	compound of high-grade recycled polyurethane foam and cork with PU elastomer bonding agent.
Density	300 - 400 kg/m³
Area weight	3.45 - 5.49 kg/m²
Thickness	17/8 mm
Roll width	1,250 mm (± 1.5 %)
Roll length	8,000 mm (± 1.5 %)
Surface	fine granular texture
Lower side	wave profile
Colour	beige/brown (Change in colour due to sunlight. This has no influence on quality and technical values)
Tensile strength	approx. 0.4 N/mm² (ISO 1798)
Elongation at break	approx. 40% (ISO 1798)

Technical data	
Dynamic stiffness	10 MN/m³
Maximum pressure	0.02 N/mm²
Service temperature range	-30° upt to + 80° C
Fire behaviour	E_{fl} (ISO 11925/EN 13501)
Impact sound improvement ΔL_w	32 dB (under 50 mm screed, 102 kg/m²) 35 dB (under 80 mm screed, 179 kg/m²)

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