

1. Product overview

This high-performance acoustic insulation material is manufactured from selected rubber granulates bonded with a polyurethane-based binder. Supplied in rolls with a standard width of 1.00 m and customizable lengths, it offers a material density between 920 and 1020 kg/m³, delivering both mechanical strength and flexibility.



2. Acoustic performance

DAMTEC multi provides excellent sound attenuation and vibration damping, even at low thicknesses, making it especially effective in space-saving multilayer wall systems such as sandwich constructions.

3. Recommended use cases

Ideal for enhancing the acoustic insulation of walls where construction space is limited but sound isolation requirements are high. Commonly used in double-skin or composite wall systems aiming for maximum performance in minimal thickness.

4. Application versatility

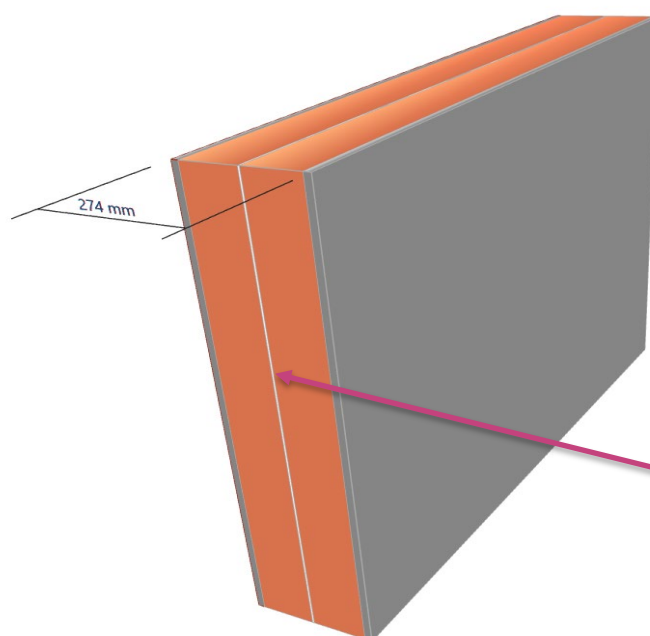
Designed for use in wall assemblies, the material can be combined with brickwork, plaster layers, or gypsum boards. It is self-supporting, moisture-resistant, vapor-permeable, and suitable for both new construction and renovation.

5. Dimensions/Tolerances

width:	1,000 mm	± 1.5 %
length:	on request	
available thickness:	3, 4.5, 5, 6, 9	± 0.6 mm

6. Physical Characteristics

tensile strength:	> 0.5 N/mm ²	(ISO 1798)
elongation at break:	> 30%	(ISO 1798)
density:	920 - 1020 kg/m ³	
service temperature range:	- 30°C to 80°C	
sound improvement Rw	≥55dB *	



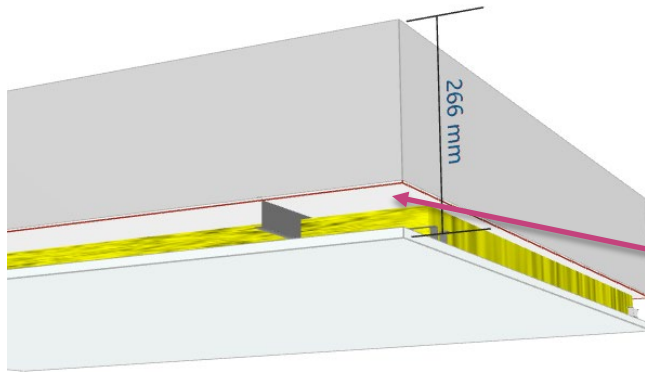
R_w ≈ 55 dB*

Exemplary Installation of DAMTEC multi between brick walls:

15mm Plaster - 120mm brick wall - 4,0mm DAMTEC multi – 120mm brick wall – 15mm plaster

*all values calculated with wall sound reduction calculation tools with the visible construction of the pictures above and are not tested on site.

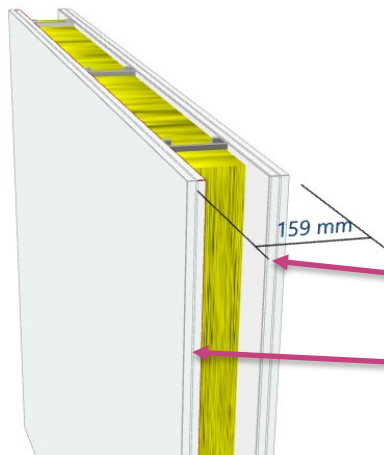
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$L_{nw} \approx 60 \text{ dB}^*$

Exemplary Installation of DAMTEC multi under ceiling:

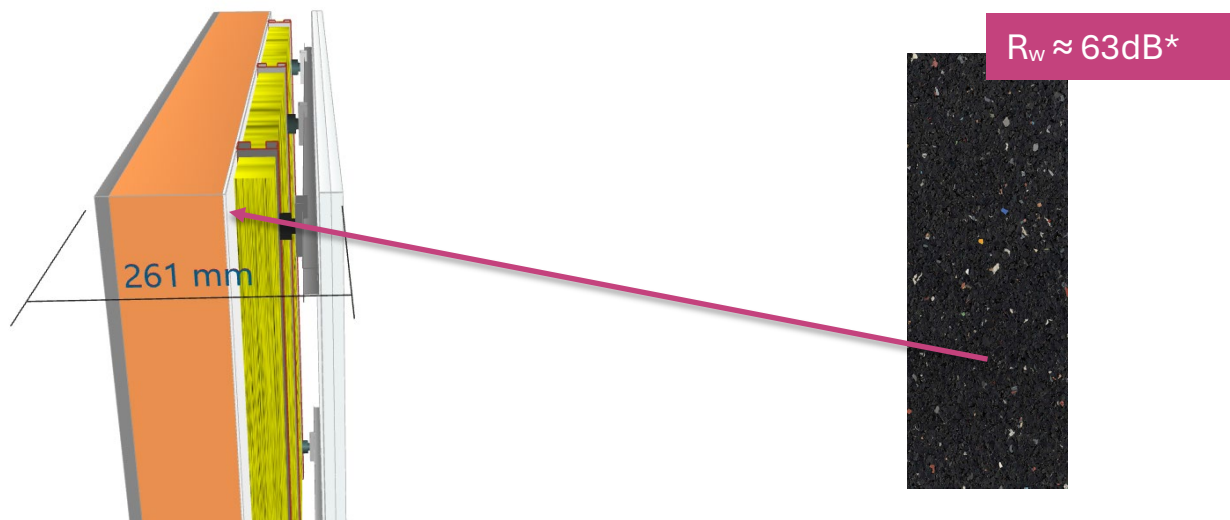
concrete slab 200mm – 3mm DAMTEC multi – metal hangers 50mm/mineral wool 48 kg/m³ - 12,5mm plasterboard



$R_w \approx 58 \text{ dB}^*$

Exemplary Installation of DAMTEC multi between plaster boards:

12,5mm plasterboard – 3mm DAMTEC multi - 12,5mm plasterboard – 100mm metal studs/mineral wool 48kg/m³ - 12,5mm plasterboard – 3mm DAMTEC multi - 12,5mm plasterboard



Exemplary Installation of DAMTEC multi with acoustic pre-wall element

15mm plaster – 120mm brick wall – 3mm DAMTEC multi – metal studs with acoustic hangers/mineral wool 48kg/m³ (50mm) – 12,5mm plasterboard – 12,5mm plasterboard

7. Installation

The rolls can be cut and fixed directly to the wall cavity using either adhesive bonding or mechanical fasteners. Its ease of handling contributes to reduced labor and installation costs on-site. We recommend not to puncture the material with fasteners, like screws or nails.

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