Technical Information decoupling and impact sound insulation board BOSIG Phonotherm® 800 - 9 mm



Phonotherm® 800 – 9 mm is used for decoupling and sound insulation on critical substrate.

Phonotherm® 800 – 9 mm is a 9 mm thick polyester fibre board with high tensile strength and compressive strength and can be laid in conjunction with conventional adhesives and adhesive mortars and be used with all types of top surfaces.

Properties and application area: Phonotherm® 800 – 9 mm is suitable as decoupling and sound insulation substrate for all types of top surfaces such as ceramic, natural stone, parquet and, after smoothing, also for carpets and synthetic surfaces. This board can be used on screed, smoothed concrete surfaces, old/hard surfaces and wooden substrate. Its high compressive strength allows use under traffic load conditions of up to 5.0 kN / m² (residential and commercial areas).

The decoupling effect is due to the reduction of shear stresses from a cracked substrate or a substrate with unwanted moving joints by ductile deformation within the board. The special structure of the board results in considerable noise absorption. Besides the restoration of critical substrate, Phonotherm® 800 – 9 mm can be used to reduce considerably the often visually distracting moving joints in rigid surfaces in new buildings.

Technical data:

Layer thickness $9 \text{ mm} \pm 0.5 \text{ mm}$

Format $1000 \times 600 \text{ mm} \pm 1.0 \text{ mm}$

Surface weight $6.3 \text{ kg} / \text{m}^2 \pm 5 \%$

Compressive strength 10 N / mm² as per DIN 53 456 Bending strength 2 N / mm² as per DIN 53 453 Tensile strength 6 N / mm² as per DIN 53 457

Traffic bearing load 5.0 kN / m² Thermal conductivity $\lambda = 0.10 \text{ W/mK}$ Thermal transfer coefficient $U = 11.1 \text{ W} / \text{m}^2\text{K}$

Fire behaviour fire behaviour class E(fl) as per DIN EN 13 501 - 1

Application area inside

Impact noise insulation with ceramic top surface approx. 13 dB*) glued *) Test bench value as per DIN ISO 140-8:1998

> approx. 17 dB*) loose used as guideline.

System structure using example of a tile surface on timbered floorboards:

flexible joint mortar

C2 tile adhesive and tiles

composite seal if required

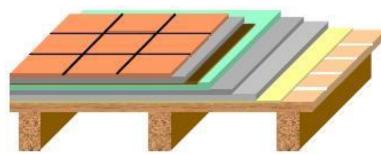
Phonotherm® 800 - 9 mm

C2 tile adhesive

filling compound

primer coat

acrylic sealing compound



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Working with the boards:

Phonotherm® 800 – 9 mm boards are bonded on the substrate. The boards are laid in a half-bond pattern. Maintain sufficient edge distance to all rising structural members such as supports and walls. An edge insulation strip is recommended. Boards can be cut with a circular saw, a jig saw or with a cut-off wheel, with diamond, for the angle grinder.

Substrate: The laying substrate must be capable of bearing load (load capacity > 1.0 kN / m² as per DIN 1055) and be even as defined by DIN 18 202 Table 3 Line 3.

Bonding: The Phonotherm® 800 – 9 mm boards are inserted onto the C2 tile adhesive, preferably with 6mm notch spacing, applied onto the adhesion-friendly substrate. The top surface can be applied once the laying mortar has hardened.

Overlaying with top surfaces:

Ceramics, natural stone and parquet can be laid directly onto the Phonotherm® 800 – 9 mm with all conventional, polymermodified laying materials. Tiles must have a minimum area of 200 cm², natural stone a minimum thickness of 10mm. In damp and wet areas, a composite seal matching the recommendations of the current ZDB (central association of the German construction industry) data sheet on "Composite seals" is applied with the top surface.

Smoothing over the Phonotherm® 800 – 9 mm boards to create a substrate free of butt-joints is recommended prior to laying carpet and synthetic surfaces such as linoleum, PVC and CV. A cement-bonded, polymer-modified filling compound (observe product information) can be installed on **Phonotherm® 800 – 9 mm**. Before filling over, the treat the boards with a primer according to the instructions of the manufacturer of the filling compound. The readiness of the overlay is dependent on the drying period of the filling compound, itself dependent on environmental conditions. It is not negatively impacted by the board. Because of the good thermal insulation characteristics, electric underfloor heating on Phonotherm® 800 - 9 mm attain an increase in efficiency – the ideal compliment below ceramic and natural stone surfaces.

Deliverables:

Phonotherm® 800 – 9 mm boards are manufactured to a size of 1000 x 600mm. 100 boards (= 60 m²) are stacked on one Euro

Safety when working:

No specific protective measures are necessary when laying Phonotherm® 800 – 9 mm boards correctly.

Disposal:

Dispose of product remains as construction waste (waste code 170701).

Attention! Important Note:

Above information are based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further

Since our information are non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees

This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2024. Please request the latest version after Jan. 01, 2025.

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