Technical Information decoupling and impact sound insulation board **BOSIG** Phonotherm[®] 800 - 15 mm

Phonotherm® 800 – 15 mm is used for decoupling and sound insulation on critical substrates.

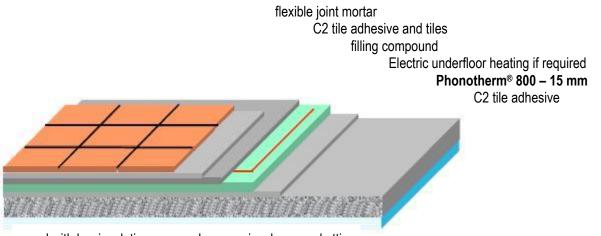
Phonotherm® 800 – 15 mm is a 15 mm thick polyester fibre board with high tensile and compressive strength and can be laid in conjunction with conventional adhesives and adhesive mortars and be used with all types of top surfaces.

Properties and application area: Phonotherm[®] **800 – 15 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 substrates. 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 substratess, **Phonotherm® 800 – 15 mm** can be used to reduce considerably the often visually distracting moving joints in rigid surfaces in new buildings.

Technical data:		
Layer thickness	15 mm ± 0.5 mm	
Format	1000 x 600 mm ± 1.0 mm	
Surface weight	9.0 kg / m² ± 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 / m ²	
Thermal conductivity	λ = 0.08 W / mK	
Thermal transfer coefficient	U = 5.3 W / m²K	
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. 14 dB*) glued approx. 20 dB*) loose	*) Test bench value as per DIN ISO 140-8:1998 used as guideline.

System structure using example of noise insulated tile surface with flat bed underfloor heating or electric underfloor heating:



screed with low insulation. e.g. such as previously unused attic

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Working with the boards:

Phonotherm® 800 – 15 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 – 15 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 laving mortar has hardened.

Overlaying with top surfaces:

Ceramics, natural stone and parquet can be laid directly onto the Phonotherm® 800 - 15 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 – 15 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 – 15 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 - 15 mm attain an considerable increase in efficiency - the ideal compliment below ceramic and natural stone surfaces.

Deliverables:

Phonotherm® 800 – 15 mm boards are manufactured to a size of 1000 x 600mm. 60 boards (= 36 m²) are stacked on one Euro palette.

Safety when working:

No specific protective measures are necessary when laying Phonotherm® 800 – 15 mm boards correctly.

Disposal:

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

Attention! Important Note:

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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