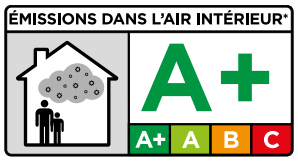
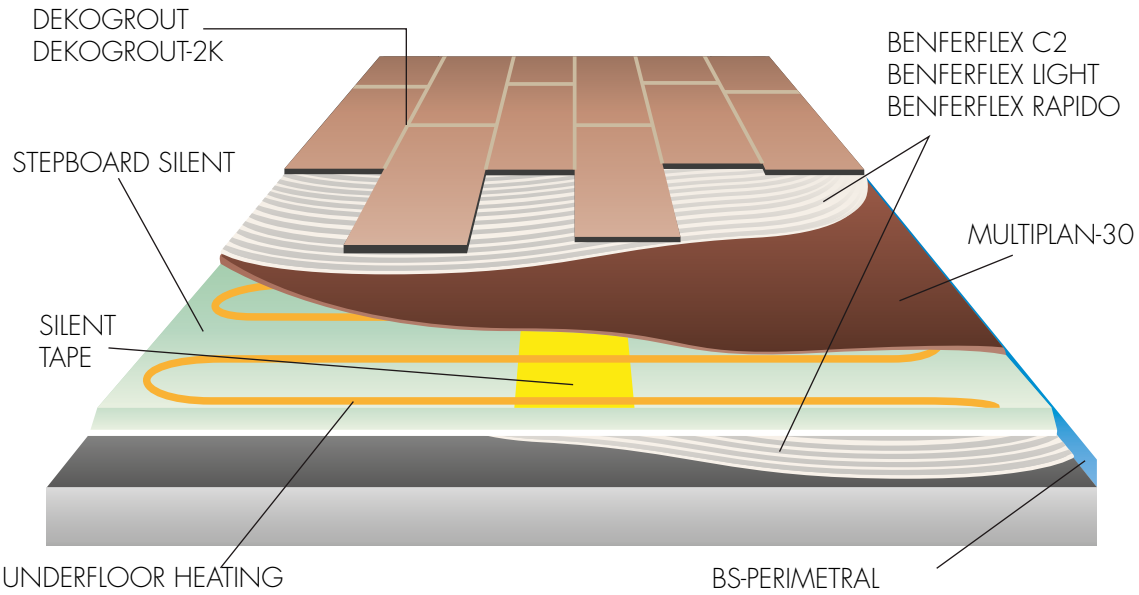
STEPBOARD SILENT

Stress barrier and highly sound dampening layer

- Effective acoustic insulation and stress barrier under tiles, natural stone and parquet
- Can be applied on screed, old floors and wooden substrates
- Sound barrier protection up to 21 dB
- Low thickness just 12 mm
- Suitable for underfloor heating systems
- Environment friendly
- Simple to handle
- Ceramic tiles 200 cm^2 to 2400 cm^2





TECHNICAL FEATURES:

STEPBOARD SILENT consists of a 9 mm thick Polyester-Fibre-Panel with an optimal density for a maximum of sound insulation and a Polyester-Fibre-Fleece with a thickness of 3 mm at the bottom. This Sandwich-panel has a high rigidity and compressive strength. In connection with a flexible tile adhesive it can be covered with all kind of top layers, with exception of solid parquet.

AREAS OF APPLICATION:

For acoustic insulation of internal floors, applied underneath the floor-tiles on:

- Cementitious and anhydrite screeds
- Substrates and old wooden floors
- Pre-existing ceramic floors or natural stones

TECHNICAL ASSISTANCE

INSURANCE GUARANTEE

TECHNICAL MEETINGS

PROFESSIONAL USE

CONTRACT ITEM SPECIFICATIONS:

For acoustic insulation of floors, we recommend laying "sandwich" boards made of a layer with thickness of 9 mm in polyester fibers with optimized density for the maximum sound absorption and a polyester fiber wool of 3 mm of thickness, with size of cm 100x60, weight of 6,6 kg/m^2, load bearing of 3,5 kN/m^2, with acoustic insulation capability up to 21 dB not united with the substrate and 18 dB if glued with adhesive to the substrate as STEPBOARD SILENT by Benfer.

STEPBOARD SILENT is a board with function of acoustic insulation and decoupling function. Designed to be installed underneath ceramic tiles or natural stones.
It can be used on screeds (cement-based or anhydrite based) and on wooden substrates, as well as on old pre-existing floors. High compression strength allows to bear a loading up to 3,5 kN/m^2 in commercial areas or living areas.
Joined to the ceramic tiles cover, applied with a system without adhesive, it allows an acoustic insulation of 21 dB. So STEPBOARD SILENT is the ideal system for the acoustic insulation of floors in new buildings or restorations.
STEPBOARD SILENT acts as insulating stress barrier between difficult substrates and rigid coatings, allowing the application of big formats as cover. STEPBOARD SILENT consists of a 9 mm Polyester-Fibre-Panel with an optimal density for a maximum of sound insulation and a Polyester-Fibre-Fleece with a thickness of 3 mm at the bottom. This "sandwich" boards is highly rigid and compression resistant; for this reason it can be covered with any kind coating (except for heavy parquet floors) with a flexible adhesive.

APPLICATION:

STEPBOARD SILENT can be glued to the support, but also placed as flow bed floor, fixing it with a proper adhesive tape. The soft part the board, the white side, must be applied in contact with the substrate. Leave a sufficient space between the boards and any vertical structure, such as walls and supports. We recommend to install a strip of insulating material at the extreme part and hold the joints between the boards with a specific adhesive tape applied on the side above, even when the panels are glued to the substrates.
Before walking on the boards, it is necessary to wait for the time of walkability of the adhesive to pass.
STEPBOARD SILENT boards can be cut using a professional knife or with a circular saw with diamond blade.

Substrates: the supports must be load bearing for a minimum of 1.0 kN/m^2 (DIN 1055), and must be flat in conformity with the legislation DIN 18202 table 3 line 3. We recommend to apply previously MULTIPLAN when the substrate is not sufficiently flat. The flexion of the wooden substrates must be lower than 1/200.

Gluing: By using a trowel of 6 mm tooth, apply a flexible adhesive, choosing among C2+, BENFERFLEX C2, BENFERFLEX RAPIDO, BENFERFLEX LIGHT. Apply the adhesive on the substrate then apply immediately the boards with a sufficient pressure. The joints between the boards must be covered with a specific adhesive tape. The finished floor can be installed as soon as the adhesive you used for the boards has hardened.

COATINGS:

Tiles and natural stones glued on boards of STEPBOARD SILENT must have a minimum surface of 200 cm^2, natural stones must have a minimum thickness of 10 mm. In bathrooms, kitchens and similar areas, apply a waterproofing membrane, conforming to the recommendations of ZDB sheets. Also, a flexible and waterproofing sealant such as DEKOGROUT or DEKOGROUT-2K must be used for filling the joints.
Before the application of fitted carpets or soft coverings, such as Linoleum or PVC, we commend to apply a coat of self-levelling with a sufficient thickness to obtain a monolithic substrate.
The electric heating systems under floor will be more efficient on STEPBOARD SILENT due to its excellent thermal insulation.

PRODUCT TECHNICAL DATA	
Thickness:	12 mm ± 1,0 mm
Format:	1000 x 600 mm ± 1,0 mm
Grammage:	6,6 kg/m² ± 5%
Floor-load capacity:	3,5 kN/m²
Thermal conductivity:	l = 0,06 W/mK
Heat transfer coefficient:	U = 4,17 W/m²K
Footstep sound improvement with bonded panels:	Δ L'W = 18 dB*
Footstep sound improvement not bonded panels:	Δ L'W = 21 dB*
Fire classification acc. to:	EN 13501-1 E (fl)
* Test values according to ISO 702 as guideline	
Floor system	
Smooth substrate, self levelling compound if necessary	
Ceramic tiles 200 cm² to 2400 cm²	

PLEASE NOTE: The information given in this chart is based on our best experience and indicative only. It must in any event be verified by the end user, who assumes all liabilities deriving from utilization of the product.