

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

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KNAUF



Drywall Systems

F475B.de

Product Data Sheet

2020-12



Brio Schüttung dB

Bulk filler for sound insulation by weight of wood joist ceilings

Product description

Brio Schüttung dB is a grainy material made of natural anhydrite (grain size 0.5 mm to 4 mm). The special grain structure allows the grains to interlock ensuring that they are capable of high loads.

Storage

Can be stored for an unlimited period when stored in a dry place.

Properties and added value

- Improvement of footfall sound and airborne sound pressure levels
- Basic floor equalization from 15 mm to 150 mm
- No addition of water during application
- Easy application
- No excessive installation height is necessary
- Can be subjected to high loads
- Non-combustible

Field of application

Brio Schüttung dB uses its weight particularly on wood joist ceilings and solid wood ceilings to improve the footfall sound and airborne sound pressure levels. Thanks to the very high mass, the same weight can be achieved with lower bulk leveller heights in comparison to constructions acc. to DIN 4109-33:2016-07. In conjunction with Knauf Brio Pre-fab Floor Screed, high-performance, slim, fully dry floor constructions can be implemented.

Brio Schüttung dB is non-combustible and thus also suitable for fire protection constructions.

Installation pipes laid on the floor can be covered by at least 10 mm of bulk leveller.

Application

Substrate and pretreatment

Ensure that there is a fully stable, load-bearing substrate with wood joist ceilings. Application over dead floor and levelling with Brio Schüttung dB only if sufficient load bearing capacity of the dead floor is assured. Use permeable material (e.g. Knauf Schrenzlage synthetic coated kraft paper) as trickling protection and apply on the walls and other rising components. Avoid hollow channels. To obtain clean straight edges, fold Knauf Schrenzlage synthetic coated kraft paper beforehand if necessary.

Do not use Brio Schüttung dB on wooden plank stack slab ceilings and implement constructional measures with a stable joint covering to avoid trickle because of subsequent deformation due to shrinkage of the ceiling elements.

On reinforced concrete coverings, lay a 0.2 mm thick PE foil (as protection against any possible rising residual moisture) overlapped by at least 20 cm and apply up to the construction height on the walls, and ensure that hollow channels are avoided.

Installation

Apply 12 mm thick mineral wool edge insulation strips as a connection to the wall. Floor levelling sets for smoothing a level bulk leveller surface consisting of a straight edge lath and guide rails are recommended. First of all a 25 cm wide strip of Brio Schüttung dB is spread as high as required along the wall. Apply bulk leveller at least 15 mm thick at the thinnest point and at least 10 mm over pipes. The spread strip of leveller is levelled to the required height with a guide rail and left in place. Parallel at the spacing corresponding to the length of the levelling rule used, a second strip is visually estimated and spread, the second guide rail is placed and levelled with the levelling rule. Thereafter, Brio Schüttung dB is spread between the guide rails and levelled.

For installation under pre-fab screed, in the corners compact Brio Schüttung dB for an area of about 40 cm x 40 cm, e.g. using a finishing trowel.

Under mineral wool insulation layers on Brio Schüttung dB a cover board (e.g. Vidiwall 1Mann) is fundamentally required for load distribution.

Fix the pipes, cables, etc. on the basic floor and cover with at least a 10 mm layer of Brio Schüttung dB.

Knauf Brio on Brio Schüttung dB
Carrying capacity

	Single-layer systems		Double-layer systems			
Knauf Brio + Vidiwall 1Mann	18 mm –	23 mm –	18 mm + 10 mm	23 mm + 12.5 mm	18 mm + 18 mm –	23 mm + 23 mm –
Brio Schüttung dB ≥ 15 mm to ≤ 50 mm						
Point load	3.0 kN	3.0 kN	3.0 kN	4.0 kN	4.0 kN	5.0 kN
Area load	3.0 kN/m ²	4.0 kN/m ²	4.0 kN/m ²	4.0 kN/m ²	4.0 kN/m ²	5.0 kN/m ²
Brio Schüttung dB > 50 mm to ≤ 100 mm						
Point load	2.0 kN	2.0 kN	2.0 kN	3.0 kN	3.0 kN	4.0 kN
Area load	2.0 kN/m ²	3.0 kN/m ²	3.0 kN/m ²	4.0 kN/m ²	4.0 kN/m ²	5.0 kN/m ²
Brio Schüttung dB > 100 mm to ≤ 150 mm						
Point load	1.0 kN	1.0 kN	1.0 kN	2.0 kN	2.0 kN	3.0 kN
Area load	2.0 kN/m ² ¹⁾	2.0 kN/m ²	2.0 kN/m ²	3.0 kN/m ²	3.0 kN/m ²	4.0 kN/m ²

1) Only in residential areas

Constructions

Between Knauf Brio and Brio Schüttung dB you can implement different intermediate layers.

Observe the following:

- A maximum of two layers of EPS and/or wood fibre insulation board are to be used.
- When using EPS DEO: In case of double compressive strength double thickness is possible.
- Underfloor heating systems installed in preformed EPS panels applies as a layer of EPS DEO.
- Mineral wool footfall sound insulation panels (e.g. Knauf Insulation TP-GP 12/1 or TPD) may only be laid on Brio Schüttung dB using cover boards (Vidiwall 1Mann).

Layers between bulk leveller and Brio	Knauf Brio single-layer		Knauf Brio double-layer	
	Point load in kN	Area load in kN/m ²	Point load in kN	Area load in kN/m ²
WF10	Limited to 3.0	Limited to 3.0	4.0	4.0
EPS DEO ≥ 100 kPa ≤ 20 mm	Limited to 3.0	Limited to 3.0	4.0	4.0
2x WF10	Limited to 2.0	Limited to 3.0	3.0	4.0
EPS DEO ≥ 100 kPa ≤ 60 mm	Limited to 2.0	Limited to 3.0	3.0	4.0
WF10 + EPS DEO ≥ 100 kPa ≤ 30 mm	Limited to 2.0	Limited to 3.0	3.0	4.0
EPS DEO ≥ 100 kPa ≤ 100 mm	Limited to 2.0	Limited to 2.0	4.0	3.0
Laminated mineral wool (Brio 18 MW) or Mineralwolle Trittschall-Dämmplatten TP-GP 12/1 sound insulation board, or TPD up to 20 mm thickness	Limited to 1.0	Limited to 2.0	2.0	3.0
Mineralwolle Trittschall-Dämmplatten TPE 12/2 sound insulation board	–	–	1.0	2.0

Technical data

Description	Standard	Unit	Brio Schüttung dB
Layer thickness	–	mm	15 – 150
Building material class	EN 13501-1	–	A1
Graining	–	mm	0.5 – 4
Residual moisture	–	%	≤ 0.3
Bulk density ¹⁾	–	kg/litre	Approx. 1.65
Weight per unit area ¹⁾	–	kg/m ²	Approx 16.5 per cm height
Compressive strength (compressive stress with 10 % compaction)	–	kPa	> 300

1) on delivery

Material requirement and efficiency

Layer thickness	Consumption kg/m ²
Per 1 cm layer thickness	approx. 16.5

Determine the precise requirement dependent on the flatness of the substrate.

Product range

Description	Application	Packaging unit	Material number	EAN
Brio Schüttung dB	25 kg	42 bags / pallet	00708649	4003982537584

Sustainability and environment

Short description	Unit	Value
Requirements of the German AgBB-scheme	–	fulfilled



Observe safety data sheet!

For safety data sheets and CE marking see
pd.knauf.de



Videos for Knauf systems and products can be found under the following link:
www.youtube.com/knauf



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