

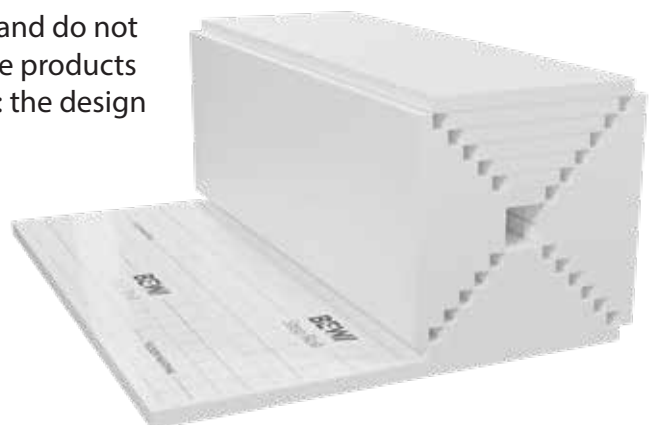


Sound insulation ensures peace and comfort

BEWI Step Roll is an effective impact sound insulation on a roll. Thanks to the overlap with integrated tape in the product, the seams do not need to be taped separately – dense casting protection prevents wet filler masses or concrete casting from entering sound-technically wrong places.

BEWI Step Roll products, made of elastic EPS insulation, are effective and functional impact sound insulation for floors and intermediate floors. The dynamic stiffness of the products is $<15 \text{ MN/m}^3$, which makes the BEWI Step Roll impact sound insulation unique.

BEWI Step Roll products are moisture resistant and do not contain mould-prone or rotting ingredients. The products also gain praise for their ability to insulate heat: the design value of thermal conductivity is $0,04 \text{ W/(mK)}$.





The standard thicknesses of the BEWI Step boards are 20 mm, 30 mm, and 40 mm. They are suitable for floor structures with standard loading of less than 5 kN/m² – thus, BEWI Step Roll is an excellent choice also for aisle spaces with loads higher than normal floor structure.

BEWI Step Edgeband

Elastic BEWI Step Edgeband is used at all edges of floating floor structures. It ensures that the top layer is floating on top of the insulation layer. Sound-technically correctly implemented surface plate is not attached to any sound-conducting structure: for example, walls, columns, or pipes.



Features – 5 reasons to choose BEWI Step Roll products for your site

1. Impact sound insulation

The dynamic stiffness of the BEWI Step Roll products is $<15 \text{ MN/m}^3$, allowing them to effectively insulate impact sound.

According to building regulations, the impact sound level between apartments must be less than 53 dB. When BEWI Step Roll products are used in the floating floor structure, the impact sound level is typically between 40 and 50 dB. Please note, however, that sound insulation is influenced by the materials used: the heavier the floor structure, the better the sound insulation.

Impact sound levels tested for different structures

Suitable as coating for BEWI Step Roll products are, for example:

- Concrete 50...80 mm
- Gypsum 35...70 mm
- Gypsum boards 2...3 layers
- Particle boards 20...28 mm
- Pumpable floor fillings 25...40 mm (usually reinforced with fiber reinforcement mesh)

The floor surface material is freely selectable and, if necessary, interchangeable.

2. Moisture resistance

BEWI Step Roll products are moisture resistant, so they do not lose their properties due to moisture. In addition, the products do not contain any mould-prone or decomposing ingredients, and they do not release any substances harmful to health, even when damp. BEWI Step Roll product's surface membrane is permeable to water vapour, thus moisture does not condense on the board.

3. Thermal insulation capacity

0.04 W/(mK) can be used as the design value for thermal conductivity. This is taken into account in underfloor heating solutions.

4. Strength properties

BEWI Step Roll products are suitable for floating floor structures on intermediate floors for different surface floor alternatives when the long-term dimensional load is up to 5 kN/m^2 . Estimated depression at this load is less than 2 mm. Because BEWI Step Roll products are moisture resistant, moisture fluctuations do not impair their properties.



BEWI Step Roll products

Product	Size	Thicknesses	m ²	Package size pcs/pkg	m ² /pkg	Usefull load kg/m ²	Thermal conductivity W/mK	Dynamic stiffness MN/m ³
BEWI Step Roll	1200 X 11360 mm	20 mm	13,63	2	27,26	500	0,040	<20
BEWI Step Roll	1200 X 7315 mm	30 mm	8,77	2	17,54	500	0,040	<15
BEWI Step Roll	1200 X 4840 mm	40 mm	5,81	2	11,62	500	0,040	<15
BEWI Step Edgeband	Lenght 1200 mm Height 80 mm, 100 mm, 120 mm, 150 mm	12 mm	-	60	72,00	-	0,040	<15

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