Technical Information

Noiseflex® Classic VB

Application areas:

The increasing noise stress, especially in urban areas and conurbations, also increasingly affect our quality of life. For this reason, acoustic insulation of buildings is of increasing importance as the guarantor of optimal acoustical comfort inside of buildings. Effective sound insulation can, and must constitute more than the application of protective measures directly at the source of the noise, even though this is often the first and most effective means, of noise reduction. Reduction of noise emission directly at the source by controlling only the generator of the noise, in an effort to protect against noise impact on the environment, is often not possible.

The Noiseflex® Classic VB product line for room acoustics offers technical solution options with numerous possibilities for sound absorption in residential and office buildings, industrial and commercial centres, sports venues, hospitals, restaurants, discos and many other public or private building complexes.

Sound impact on building sections and therefore sound insulation, can be generally classified into three categories:

- Sound insulation against airborne sound
- Sound insulation against footsteps
- Optimizing sound reflection in the interior

Noiseflex® Classic VB offers different systems for each of these three categories, each optimally suited for the respective functional application and area of use.

Noiseflex® Classic VB applications achieve excellent NRC values (Noise Reduction Coefficient) with respect to the average sound absorption level. Furthermore, Noiseflex® Classic VB, in combination with other commercial materials, guarantees outstanding results in terms of both the suppression of airborne sound and footstep sounds.

Application examples, depending on density for:

Sound insulation	• on walls and ceiling (light-weight ceilings and solid ceilings with exposed beams), combined with plasterboard, wood or a cement-wood combination • in floors, e.g. with floating screed or where floor and wall meet • in cavity wall brickwork • in curtain wall construction
Resonance decoupling	• of machines
Airborne sound insulation	• in machine rooms • as suspended absorption units (baffles)

Processing example:

Full surface glued onto a wall. The wall may consist of raw or plastered brickwork. In the case of wallpapered walls, the wallpaper must be removed in order to have a sufficiently stable surface for adhesion.

The actual surfaces to be glued must be firm, stable, free of dust, grease and oil and must be dry – free of ice and frost. Any and all release agents must be removed. BOSIG Acoustic adhesive should preferably be used for gluing.

BOSIG Acoustic adhesive adheres to almost all building materials without special primer. In the case of porous and highly absorbent surfaces, we recommend application of a primer using a mixture of BOSIG Acoustic adhesive with 3 parts water. Observe flash off time of the primer!

BOSIG Acoustic adhesive is applied to one surface from the flow pack in the form of a bead. Then the adhesive is spread with a notched spatula (3 x 3 mm or 4 x 4 mm recommended).

Continue by firmly pressing the Noiseflex® Classic VB sound insulation boards into the adhesive bed over the full surface. No grouting! Adhesive allows adjustments for a few minutes. In the case of heavy sections or sections under tension and with adhesion to a ceiling, the Rebound sound insulation sheets must be supported for at least 24 hours and / or mechanically attached.

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Technical data:

Trade name	Rebound foam
Base	Polyurethane soft foam
Supply forms	sheets 2000 x 1000 mm
Colour	multi-coloured

Product types:

Noiseflex® Classic VB	**100**	**200**
Raw density	90 – 120 kg / m³	180 – 230 kg / m³
Compression hardness (40 %)	> 11,0 kPa	> 50,0 kPa
Tensile strength	> 70 kPa	> 90 kPa
Compression set	< 15 %	< 15 %
Fire behaviour	BR < 100 mm / min.	BR < 100 mm / min.

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