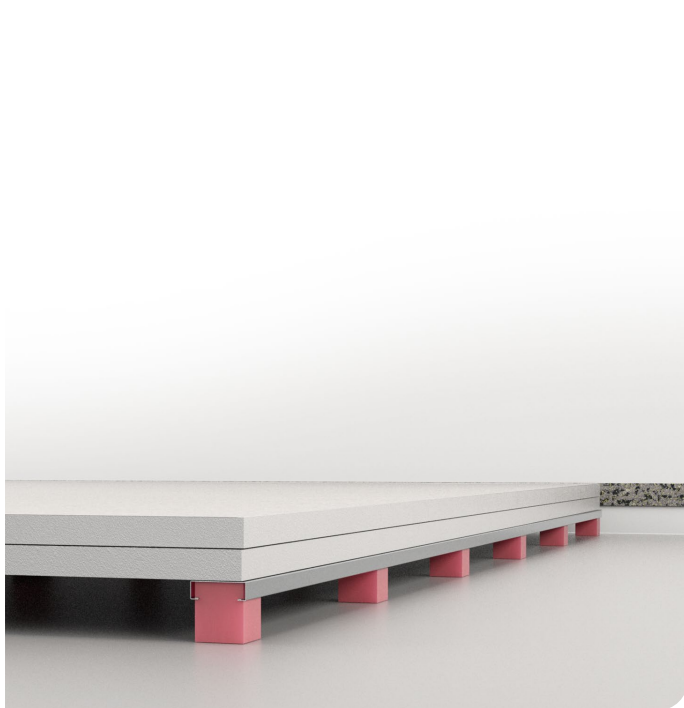




Floor System VT-BAT

VT-BAT – Joists for a floating and vibration isolating floor



Quietly Improving Your Environment

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Installation manual

VT-BAT – Joists for a floating and vibration isolating floor

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1. Perimeter isolation

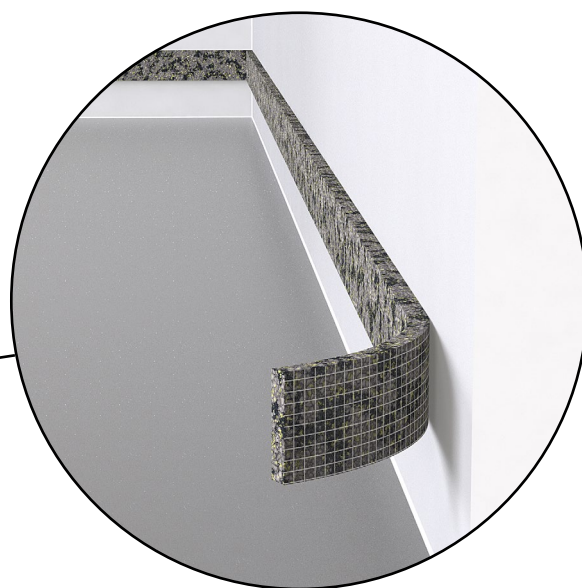
Install the self-adhesive edge insulation strips (small color in the figure below) at the correct height above the leveled surface

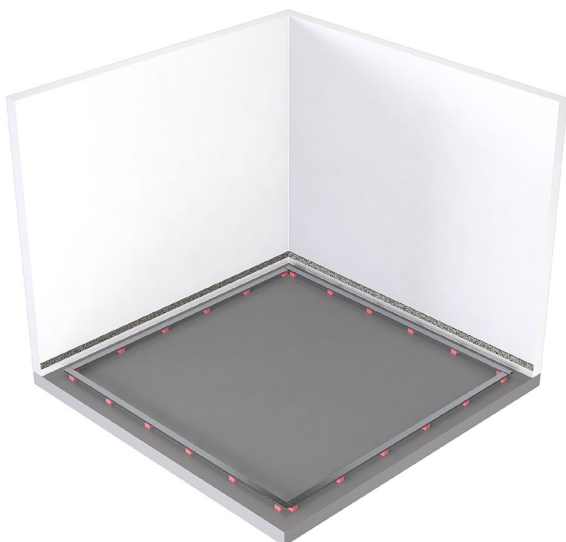
This example is a floor constructing of two floorboard layers on top of the VT-BAT 50mm joists, so the elastic strip is installed ca 85 mm from its top edge to the floor.

This ensures that the floor surface does not make mechanical contact with the existing wall.



Example of the finished floor construction

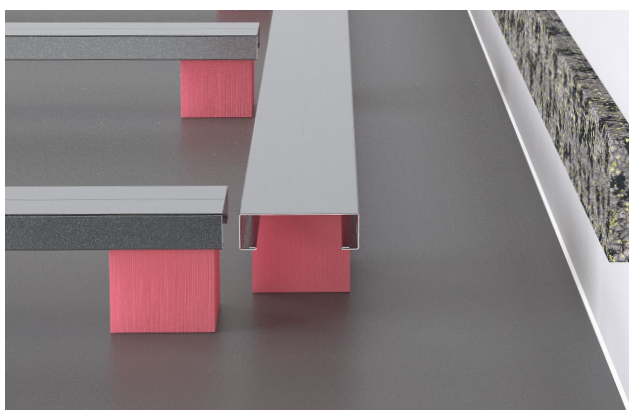
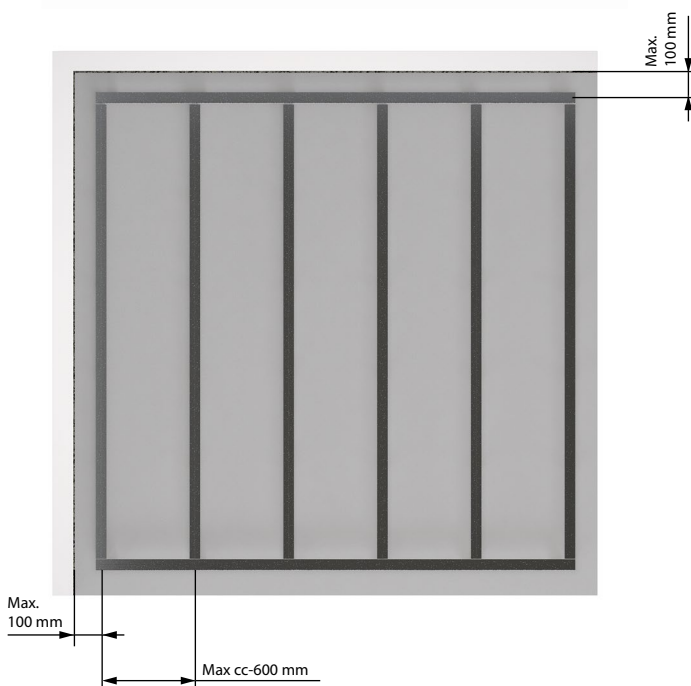




2. VT-BAT floor joists

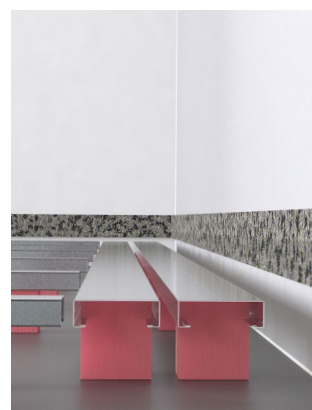
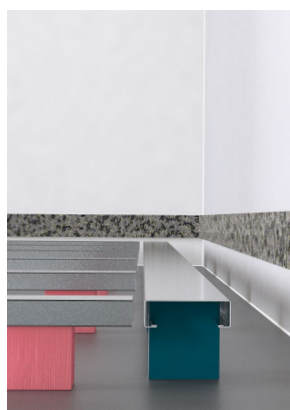
First, lay out the joists as a frame in the room, then place the joists so that the load is evenly distributed. For most lightweight floors with floorboards, we recommend that the joists are laid cc-600 mm. The maximum distance between the joists is 600 mm. If the floor is not levelled properly, you may need to shim with shims under some of the cushions.

Joists should be laid along the edge at a distance of about 100 mm from the wall. This compensates for the extra load from furniture along the walls.



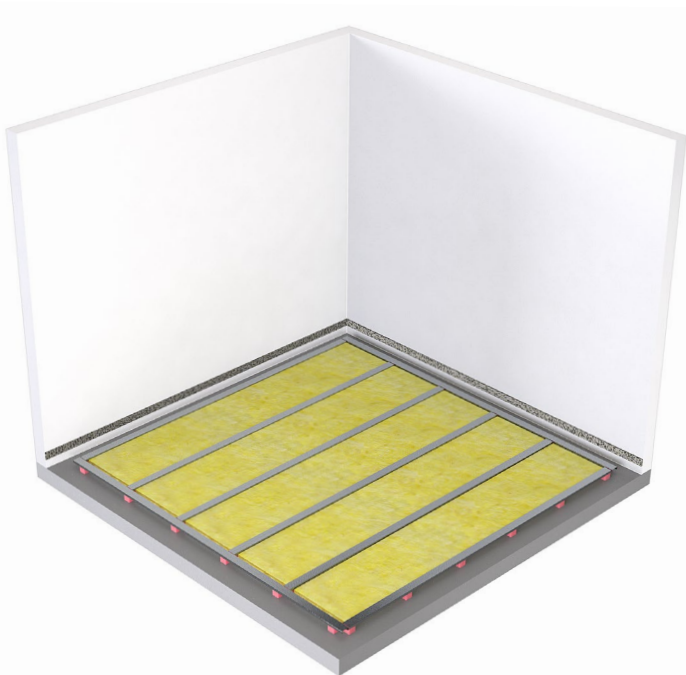
Joints

Leave about 5 mm between joists to allow for possible expansion in the material.



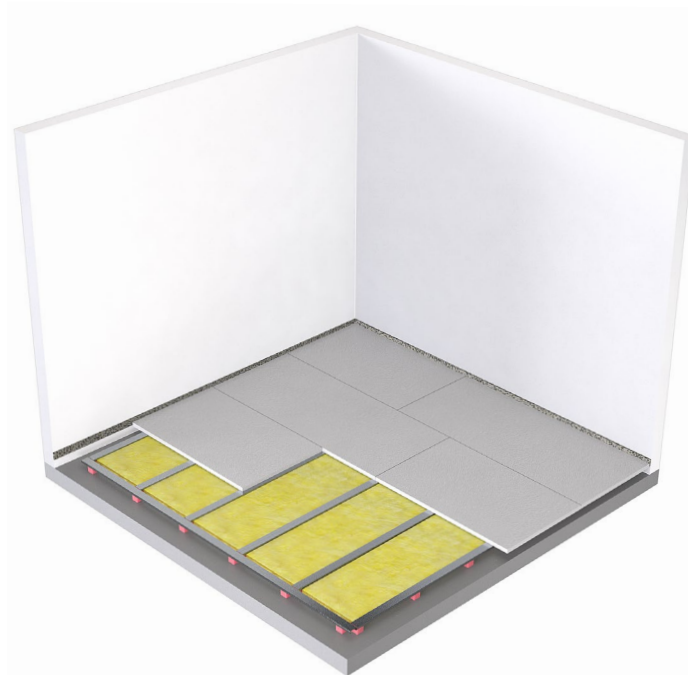
Walls placed on top of the floor

If there are to be internal walls on the floating floor, you will have to compensate with more cushions, a different stiffness of the cushions or with double joists.



3. Insulation

Lay low-density insulation between the joists. The thickness of this insulation should be less than the sprung height of the joists, to allow air to move freely under the floating slab.



4. Floorboards - layer 1

The floor boards are screwed directly into the joists with self-tapping screws. Be careful not to screw in the pads as this will affect the characteristics of the installation. Joints are placed in the centre of the joists, except for joists along the walls.



5. Vibratec Damping Glue

When the first layer of floorboard is installed, apply Damping Glue DG-2000, viscoelastic adhesive.

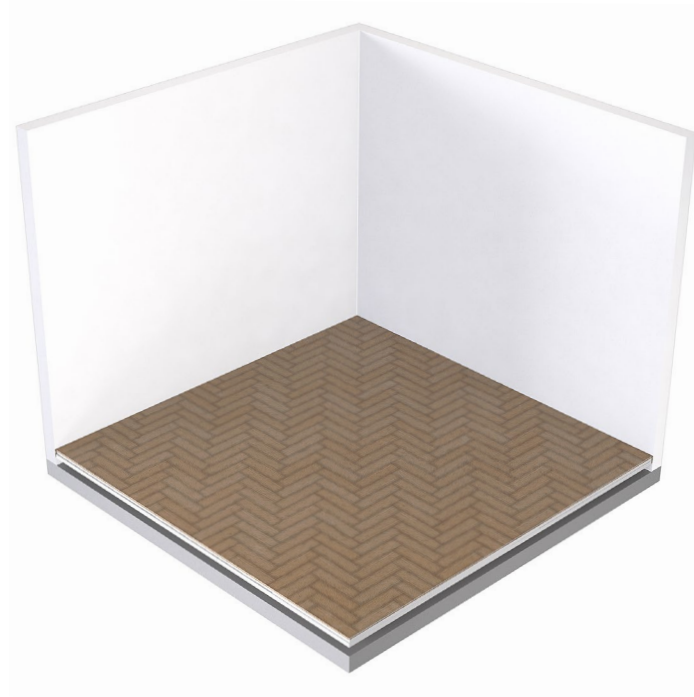
The layer should be about 1 mm thick (however, for extra performance, thicker layers can be used).



6. Floorboards - layer 2

The second layer of floorboard is glued down with Vibratec Dampening Glue. Position the boards so as to avoid absolute joints.

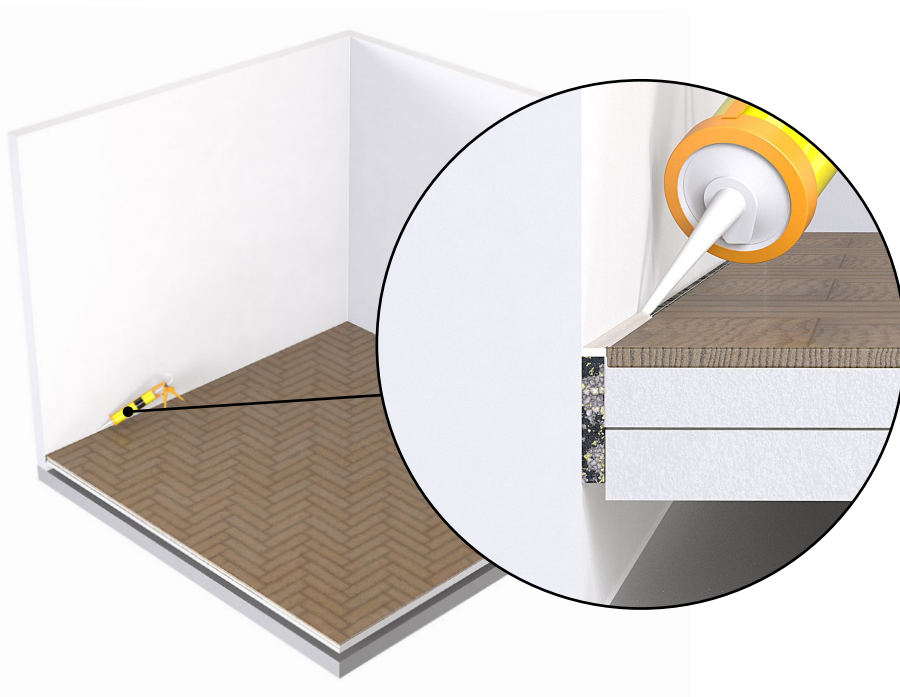
While the glue is curing, you can screw the floorboards in place. Screw tightly and carefully mark the screws so that they can be removed when the glue has cured.



7. Surface cladding

Check that all screws used to hold the floorboards together while the adhesive is curing have been removed.

Then install any surface covering, parquet, carpet, tiles or similar.



8. Use an acoustic soft joint between the wall and floor covering to avoid mechanical contact.

We recommend our **Acoustic Sealant VT-FAS**.



Acoustic Sealant VT-FAS

A high performance, easy to use, professional grade sealant and adhesive. This product outperforms conventional sanitary silicones, MSP, butyl and acrylic based products as a sealant and adhesive - the only sealant without hazardous emissions.

[Read more about Acoustic Sealant VT-FAS on our website.](#)

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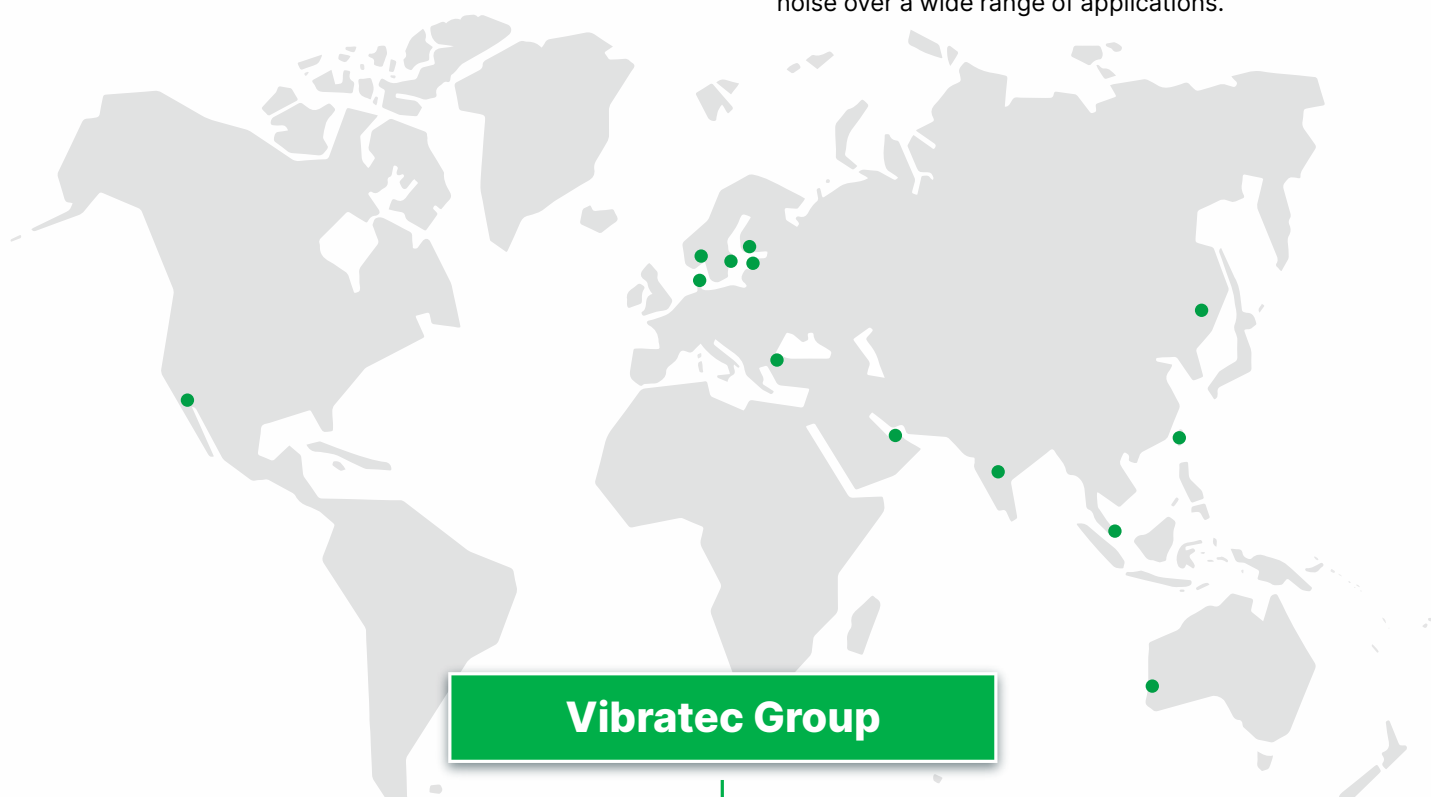
Quietly Improving Your Environment

Engineering, Production and installation

Vibratec has extensive experience, combined with the use of modern tools, when we design and manufacture tailor made solutions in all areas of vibration and noise reduction. Vibratec performs test to evaluate mechanical, physical and long term behaviour on materials as well as complete solutions.

Construction, Defence, Industrial, Marine, Offshore and Infrastructure

Vibratec Akustikprodukter is one of Scandinavia's leading suppliers of noise and vibration solutions. Vibratec's ambition is to become the preferred choice for customers who need solutions to noise, vibration and shock problems. Vibratec produce and store many products for damping / isolation of vibration, shock and noise over a wide range of applications.



Vibratec Group

