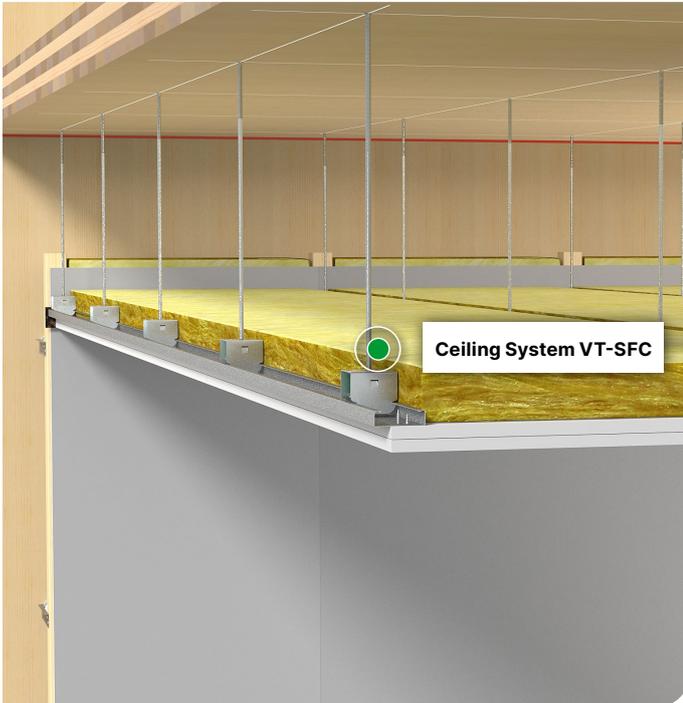


VIBRATEC

Ceiling system VT-SFC

Installation manual

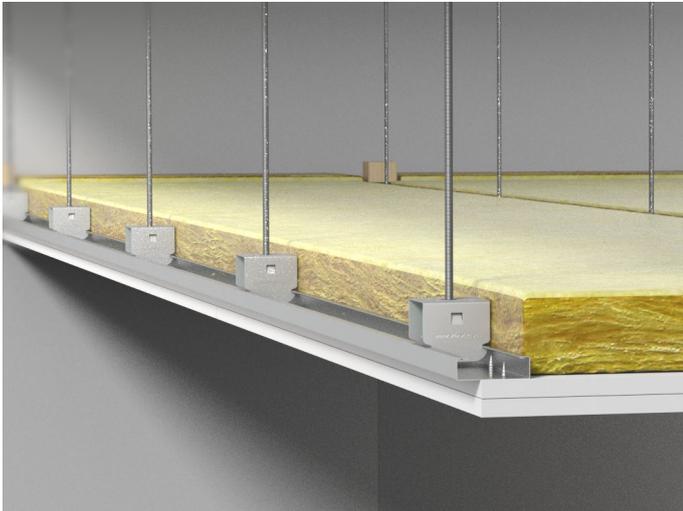


Quietly Improving Your Environment

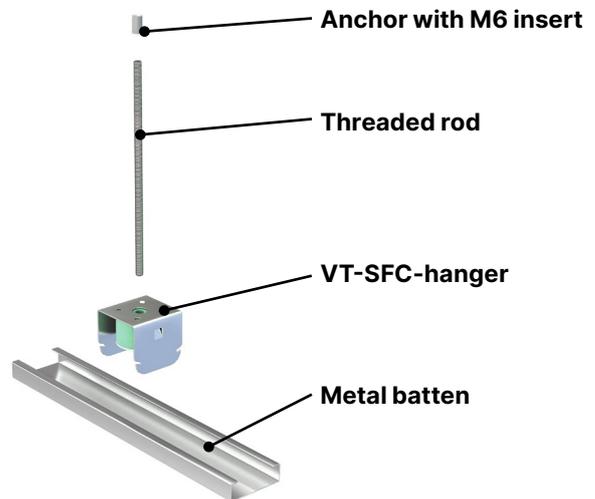
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Installation manual

VT-SFC – suspended ceiling for reduction of airborne and structure borne sound



Example of our suspended ceiling system VT-SFC, suspended 450 mm, 70 mm insulation and 2 layers of gypsum boards.



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1. Perimeter isolation

2. Mark where to mount the hangers

3. Install the SFC-hanger

4. Mount the battens

1. Perimeter isolation

Install the self-adhesive elastic strips at the correct height to decouple the gypsum boards and the metal battens from the walls.

The bottom part of the strips should be approximately 5-10 mm higher up than the lowest part of the suspended ceiling, in this case, the lower edge of the last layer of gypsum boards.

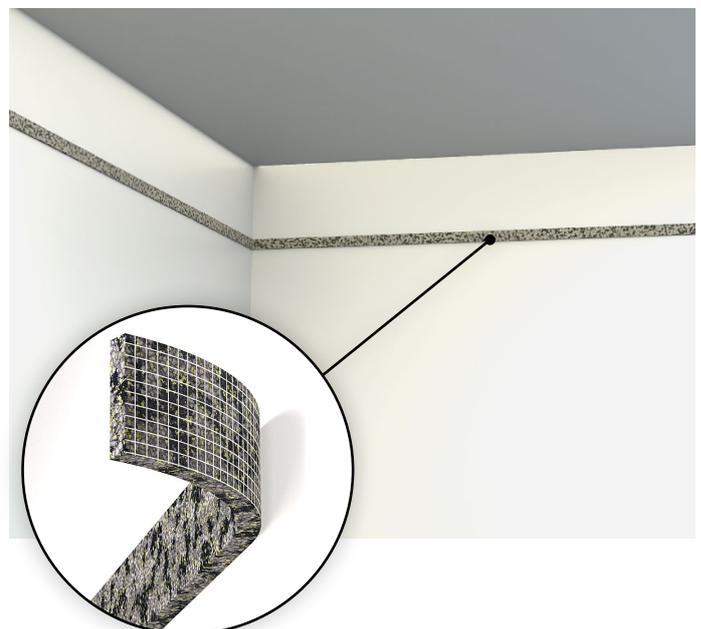
This guarantees that the ceiling does not risk mechanical connection to the walls and the spread of structure borne noise is reduced.

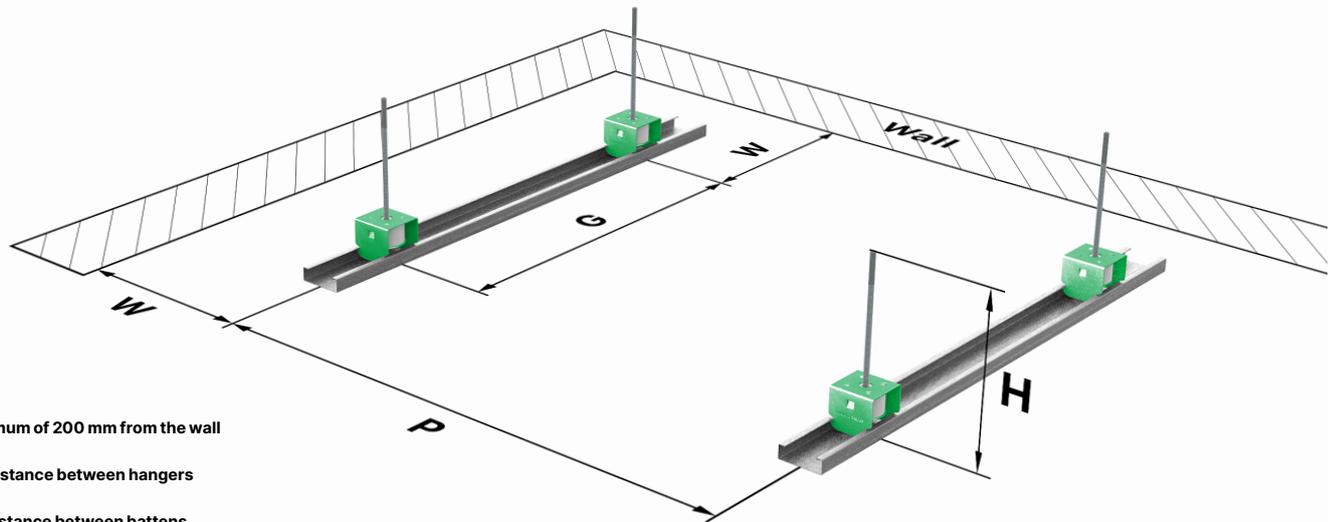
5. First layer of construction boards

6. Insulation

7. Continue installing next layer(s) of construction boards

8. Seal the edges with acoustic sealant VT-FAS





W = Maximum of 200 mm from the wall

G = CC-distance between hangers

P = CC-distance between battens

H = Suspended height to bottom of batten



2. Mark where to mount the hangers

To ensure correct load per hanger, it is important that the hangers and battens are installed with correct cc-distances. Depending on the ceiling weight, Vibratex can inform the correct cc-distances.

Make sure the first row of hangers in all directions is a maximum of 200 mm from the walls, see image at the top of the page.

Mark the placement of the hangers according to our specifications and then begin installing them.

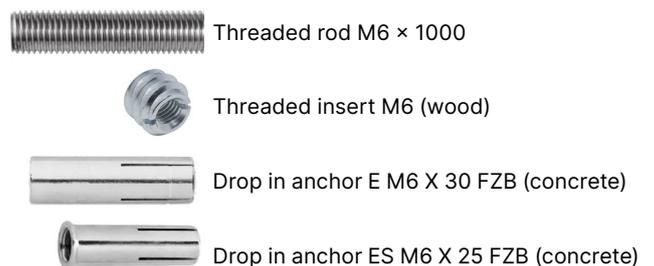
For best acoustical performance we recommend that there is an air gap of approximately 250 mm between the structural and suspended ceiling.



2.1 – Install the threaded rods

For suspension of the inner ceiling use threaded rod M6 (quality 8.8). Fastening the rods into a concrete ceiling, use flush anchors M6×25, for fastening into a wood structure use ramp sleeve with inner thread M6.

Cut the threaded rods to their appropriate lengths depending on your requirements. Make the rods slightly longer than needed so there is room to adjust the height up or down a few mm when leveling the ceiling.



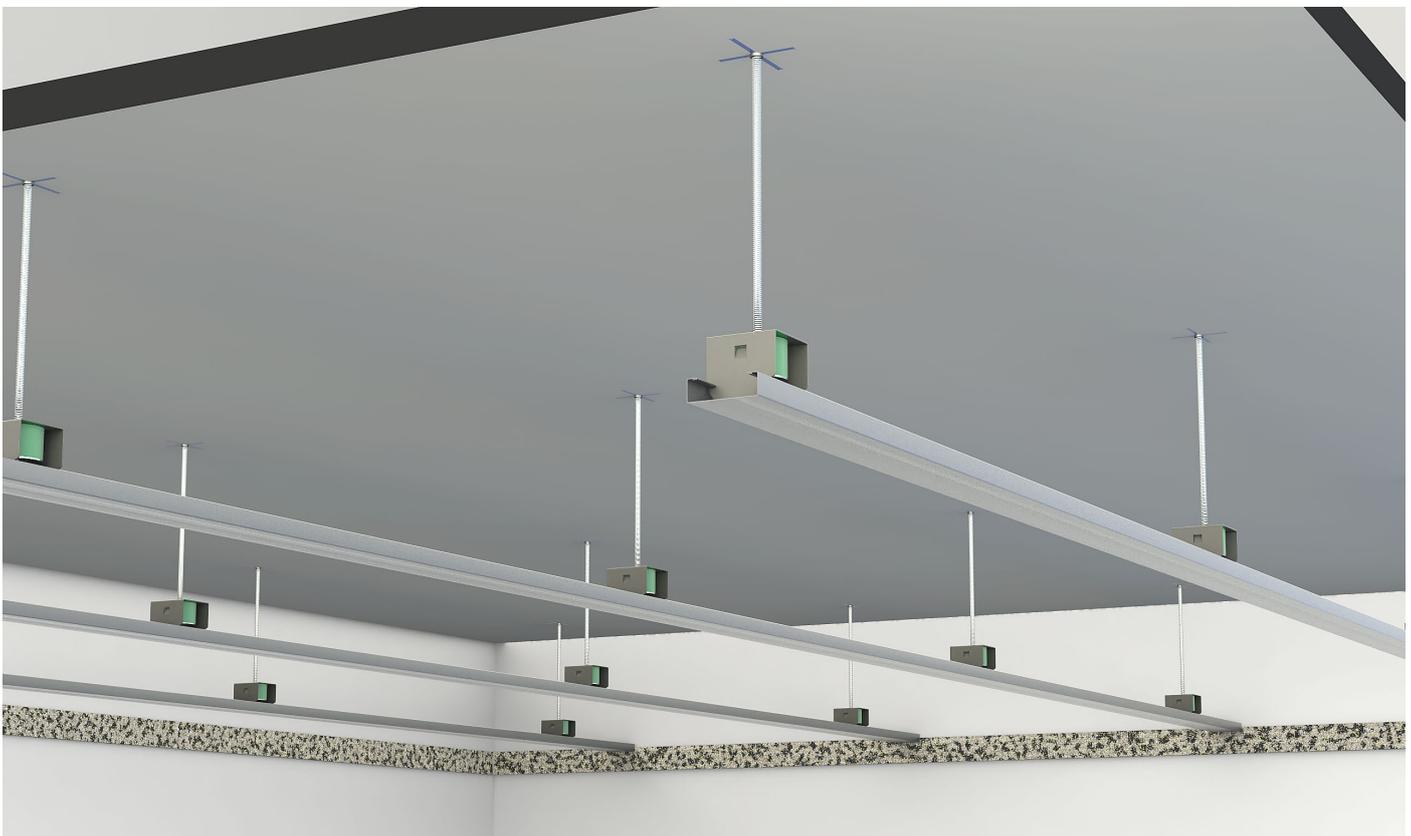
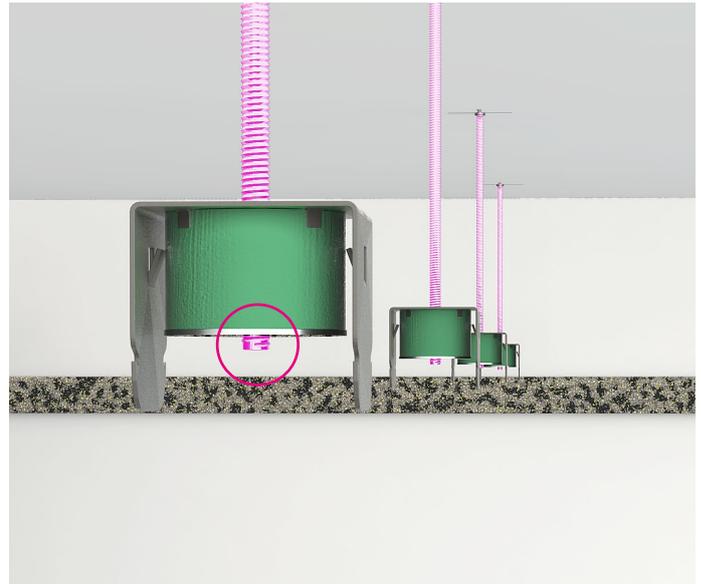
3. Install the SFC-hangers

Insert the SFC-hanger onto the threaded rod and screw it into the washer underneath the elastic element. This washer has an inner thread (M6) that fits the threaded rods.

Note: The rod should go through the washer approximately 5-10 mm so adjustments in height can be made when leveling the hangers. Make sure there is no chance that contact is made with the batten (step 4).

3.1 – Level the hangers

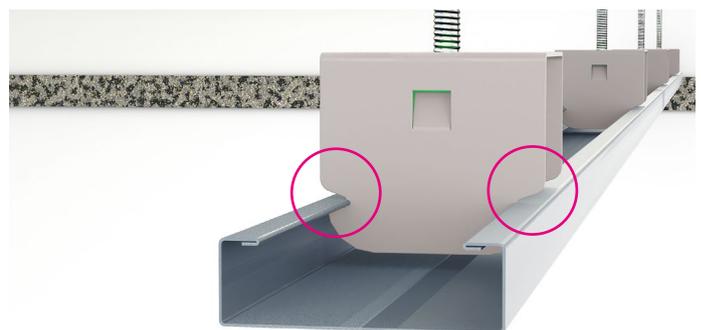
After all the hangers are screwed onto the threaded rods, the suspended height is controlled with laser to ensure they are all at the right height and that they are level.



4. Mount the battens (C-profile)

The batten is attached to the hangers as shown in the image to the right. Place the C-profile batten into the grooves on one side of the hanger, and then press the profile onto the hanger into the corresponding grooves on the other side so it "clicks" into place.

Make sure that the profile fits into the grooves on both sides of all the hangers.

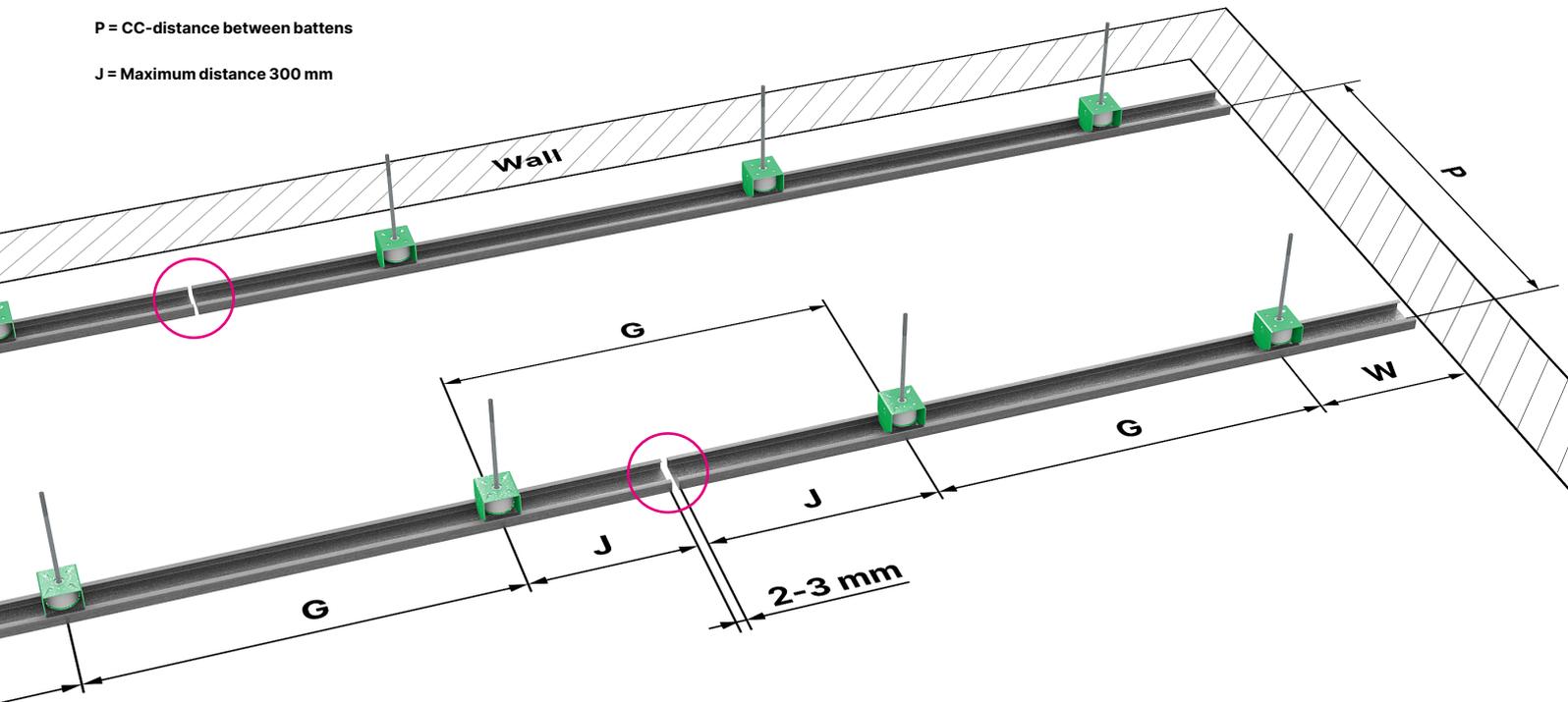


W = Maximum distance 200 mm

G = CC-distance between hangers

P = CC-distance between battens

J = Maximum distance 300 mm



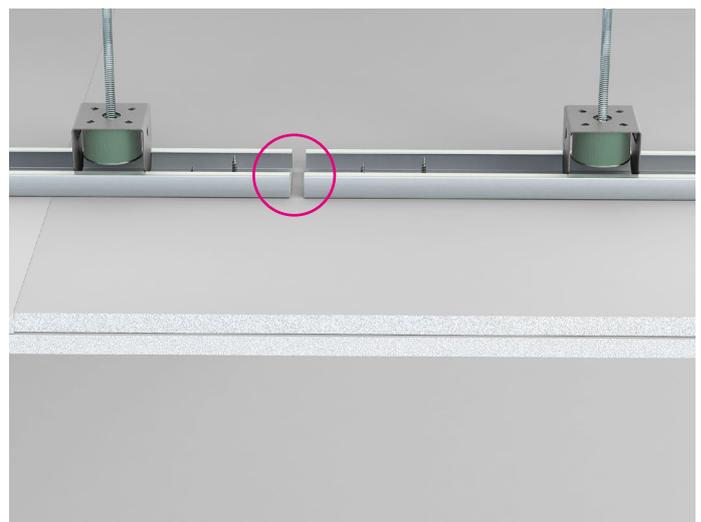
The battens are 3 m long and are cut to the appropriate lengths when needed. A minimum of two hangers per batten is required, one on each end preferably.

If the rows of battens are longer than 3 m, leave a 2-3 mm gap between the battens. This reduces the risk of squeaks from the ceiling. Make sure to stagger your gaps between battens as shown in the image above

The distance between the closest hanger and the end of the batten should be between 150-300 mm. Make sure the total distance between the hangers ($J + J$) is not greater than what is recommended (G).

4.1 – Check the alignment of the battens

When the ceiling framework is completely installed check so all the rows of battens are level before starting to fix the first layer (go to step 5).

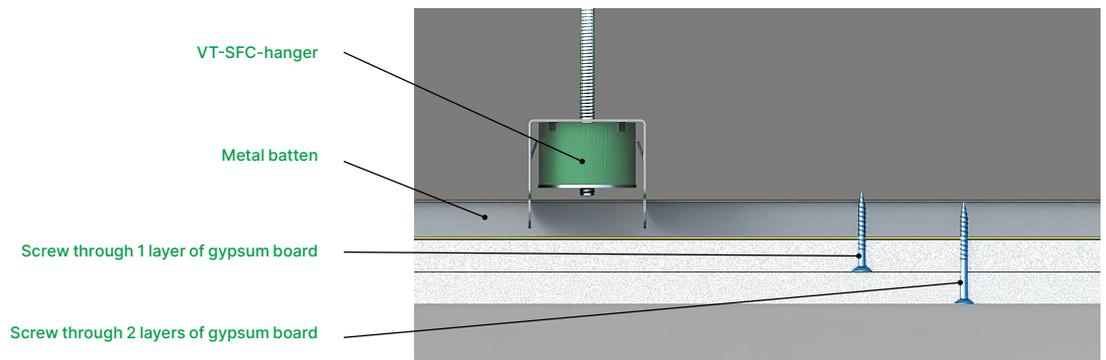


5. First layer of gypsum boards

The ceiling framework is now elastically suspended and decoupled from the structure by the Regufoam cushions in the hangers. Now it's time to fix the gypsum boards to the framework.

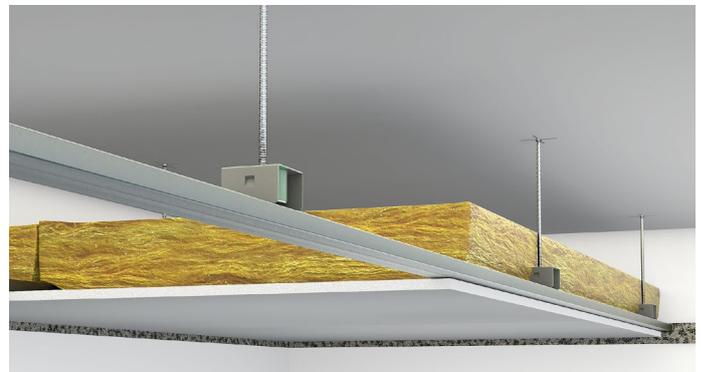
At least two layers of construction boards is recommended (ex. gypsum, plywood, OSB board, or a combination).

The gypsum boards are screwed onto the battens; it is important not to screw into the hangers, as this will short-circuit the hangers and cause acoustic bridging.



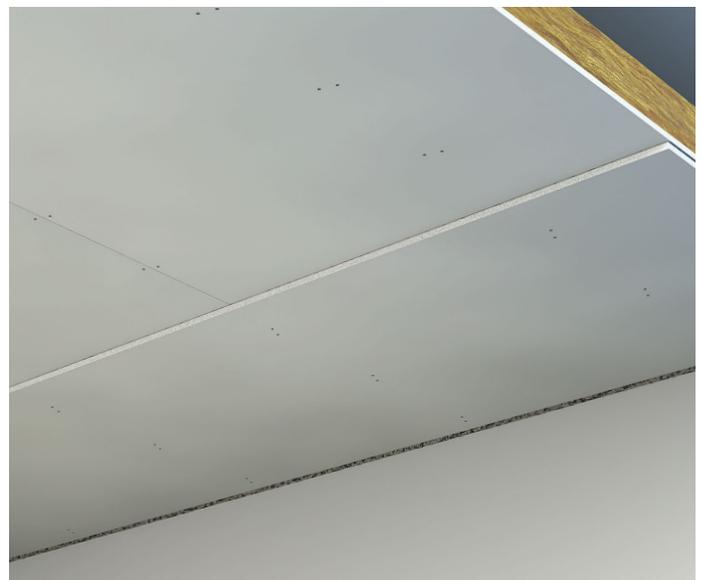
6. Insulation

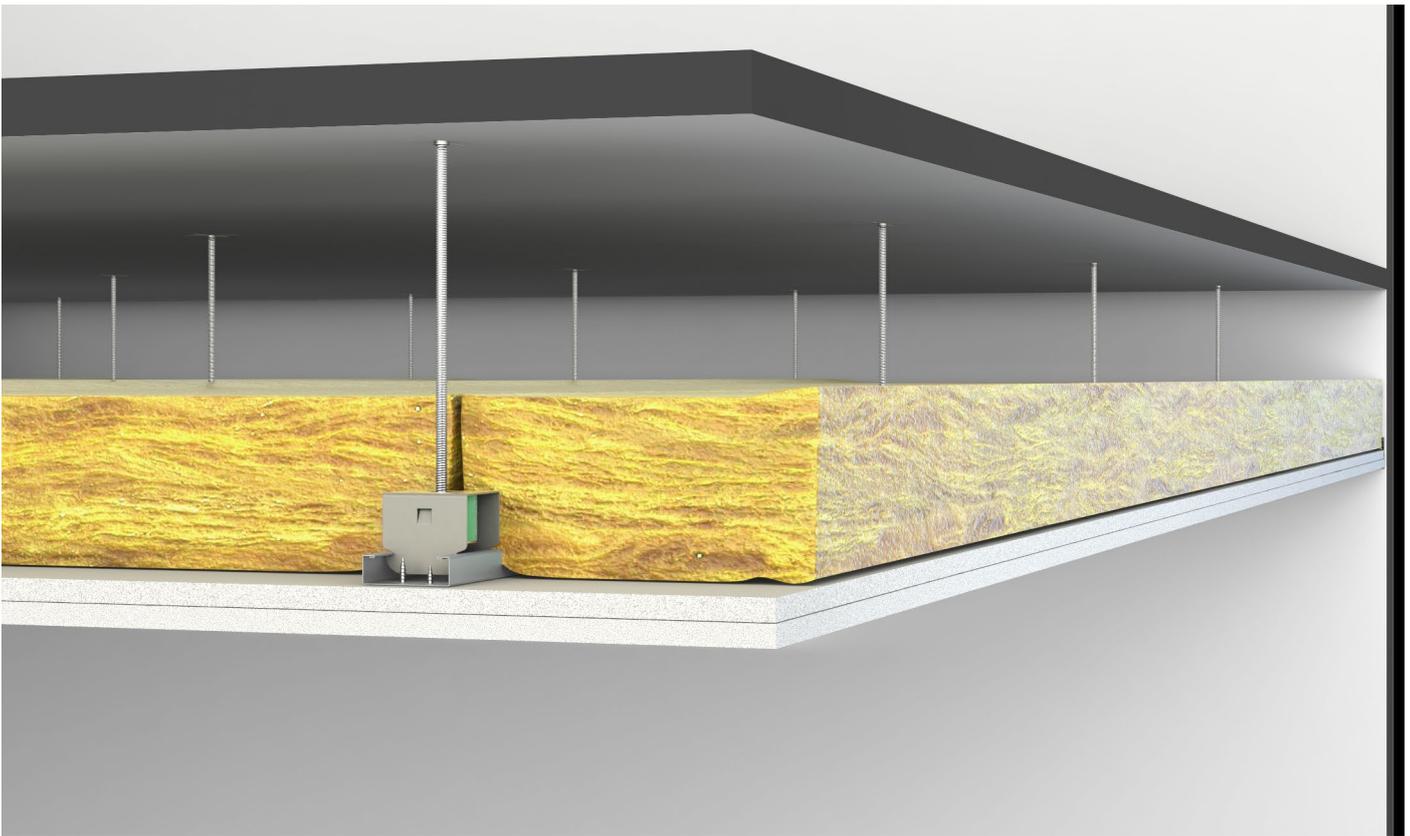
If the ceiling plans include insulation, it is installed in between the profiles. The insulation should not be squeezed or compressed when installed. This installation is being done simultaneously as fixing the boards into the battens, until the first layer is completely installed.



7. Continue installing the next layer(s)

When the first layer of gypsum board is completed, and the insulation has been placed on top, continue installing the next layer, or layers. These layers should be installed with staggered joints, and all layers should be screwed into the C-profile. If three or more layers are to be installed, we recommend using plywood, OSB or similar as the first layer.





Once the installation is finished, a thorough control should be done to check that there are no direct contacts with surrounding walls.

8. Seal the edges with acoustic sealant VT-FAS

Now that the suspended ceiling is completed, use our acoustic sealant VT-FAS to create an elastic seal around the edges of the ceiling.

VT-FAS does not harden over time and ensures the ceiling is elastically decoupled from the walls as well as giving a nice finish.



Acoustic sealant VT-FAS

A high performance, professional quality, fire retardant, easy to use sealant and adhesive. This product outperforms conventional sanitary silicones, MSP's, butyl & acrylic based products as a sealant and adhesive.

[More about our acoustic sealant VT-FAS on our webpage.](#)

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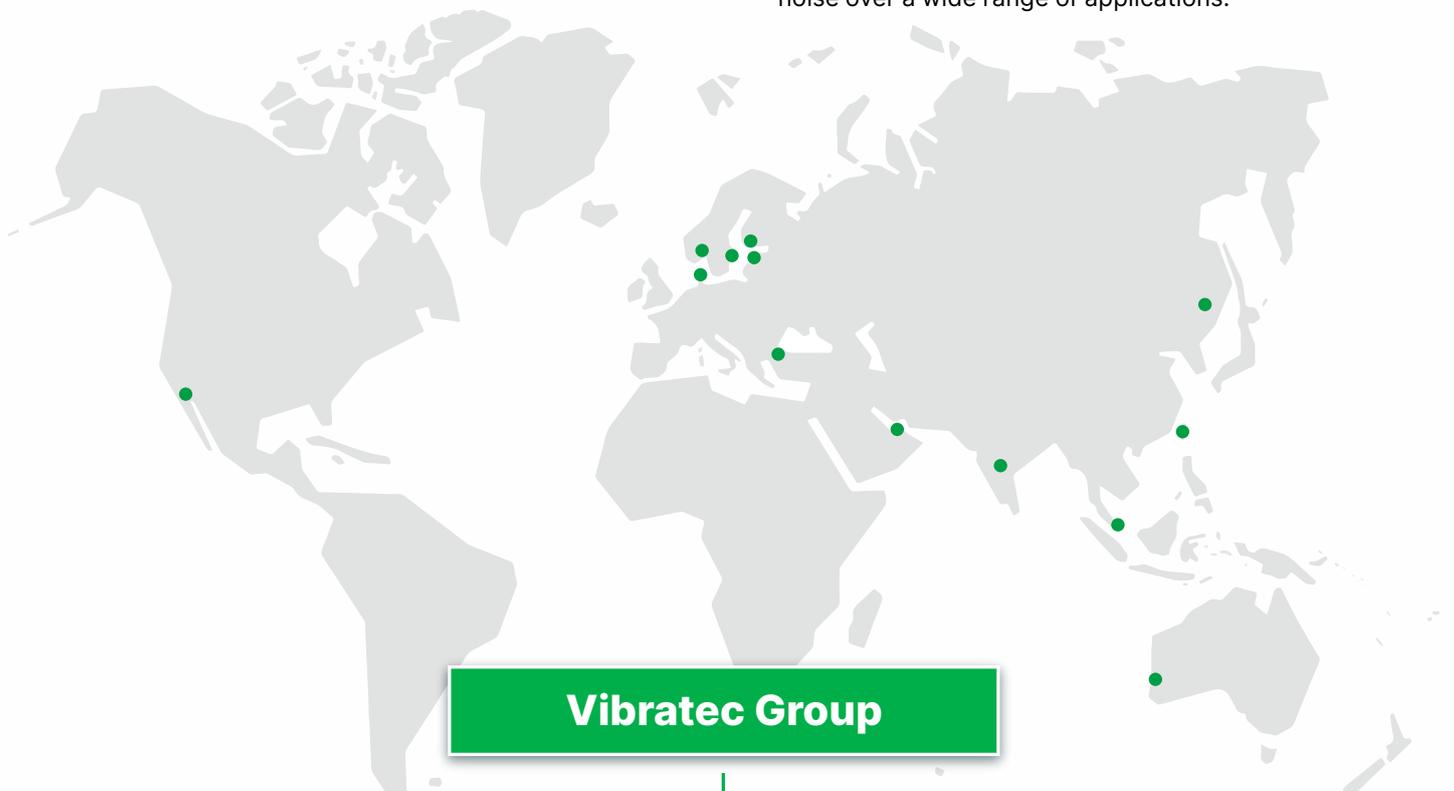
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Engineering, production and installation

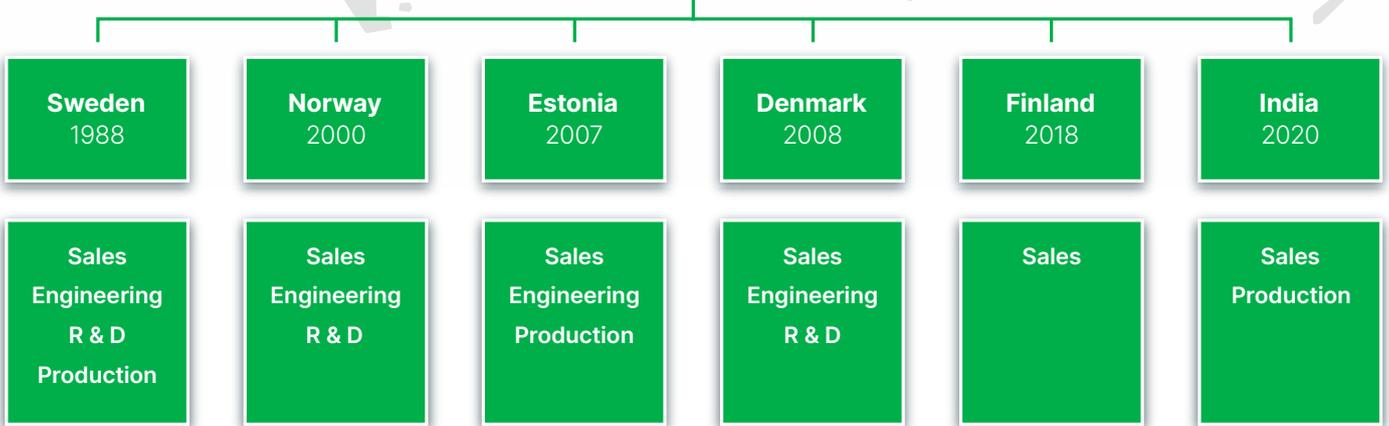
Vibratec has extensive experience, combined with the use of modern tools, when we design and manufacture tailor made solutions in all areas of vibration and noise reduction. Vibratec performs test to evaluate mechanical, physical and long term behaviour on materials as well as complete solutions.

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.



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