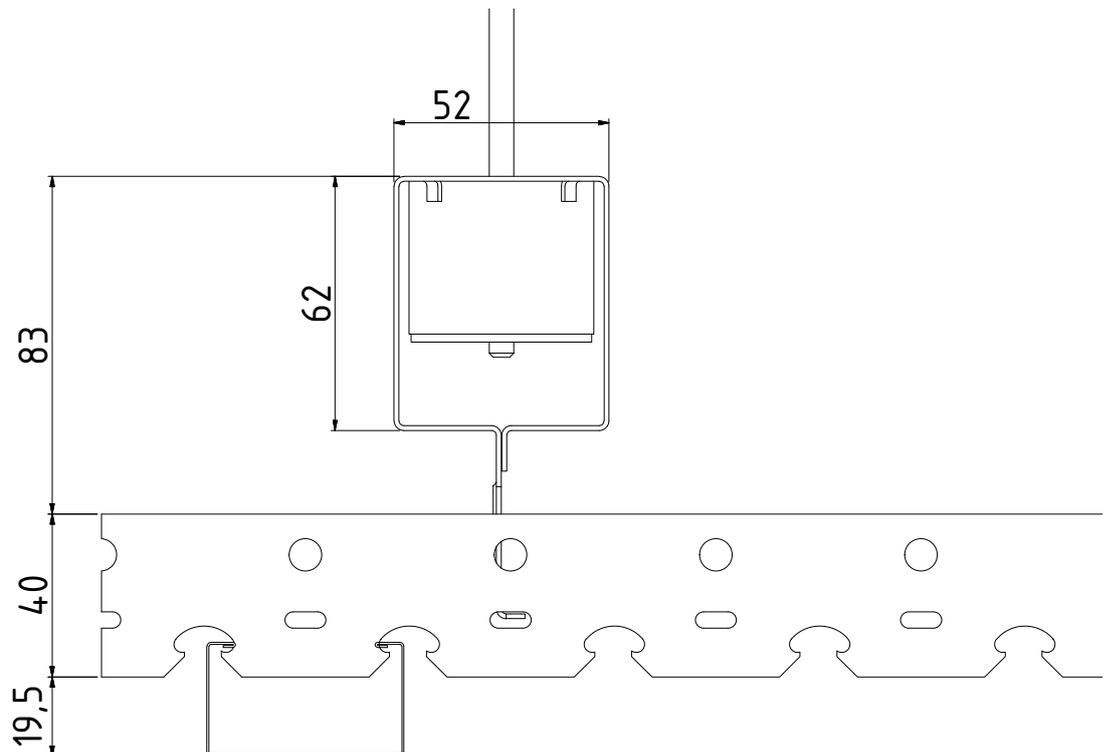
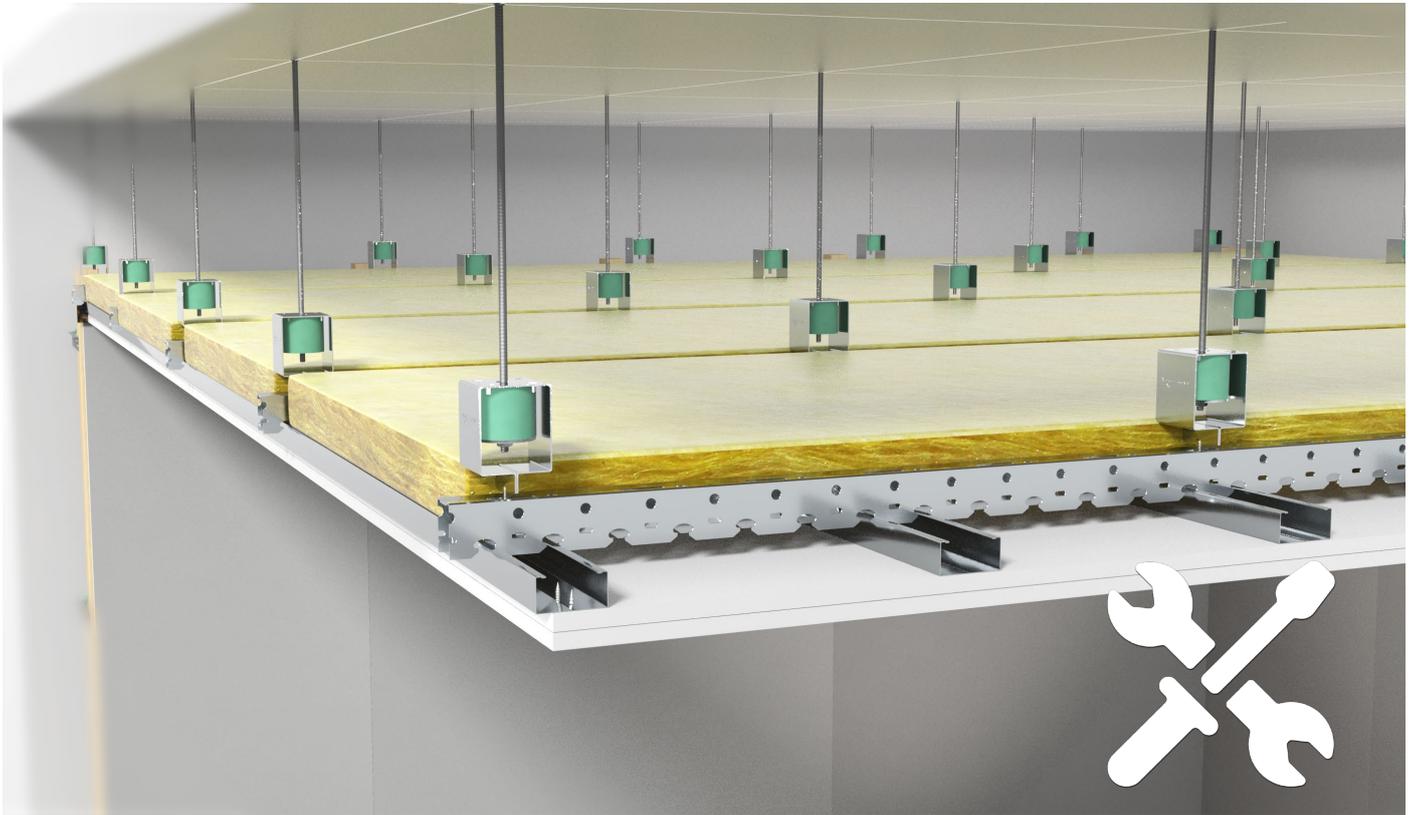


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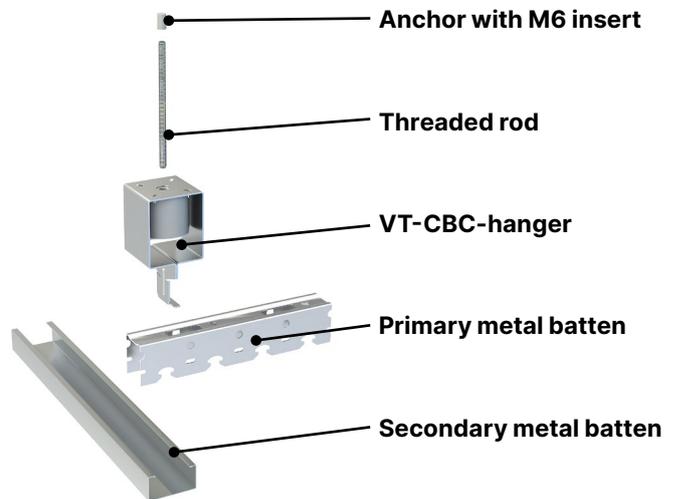
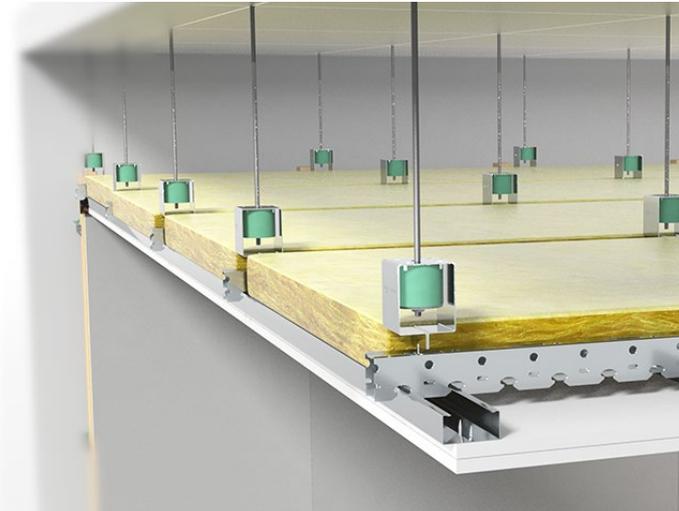
Ceiling system VT-CBC

Installation manual



Installation manual

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



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

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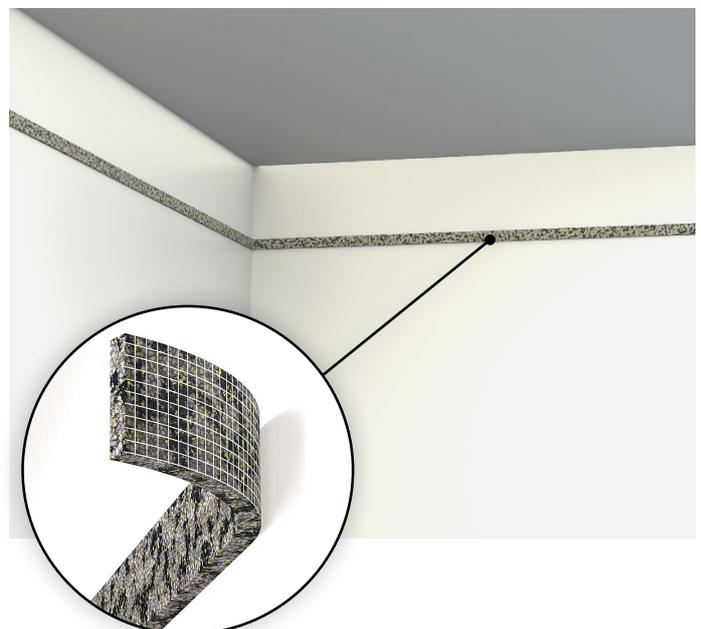
8. Seal the edges with acoustic sealant VT-FAS

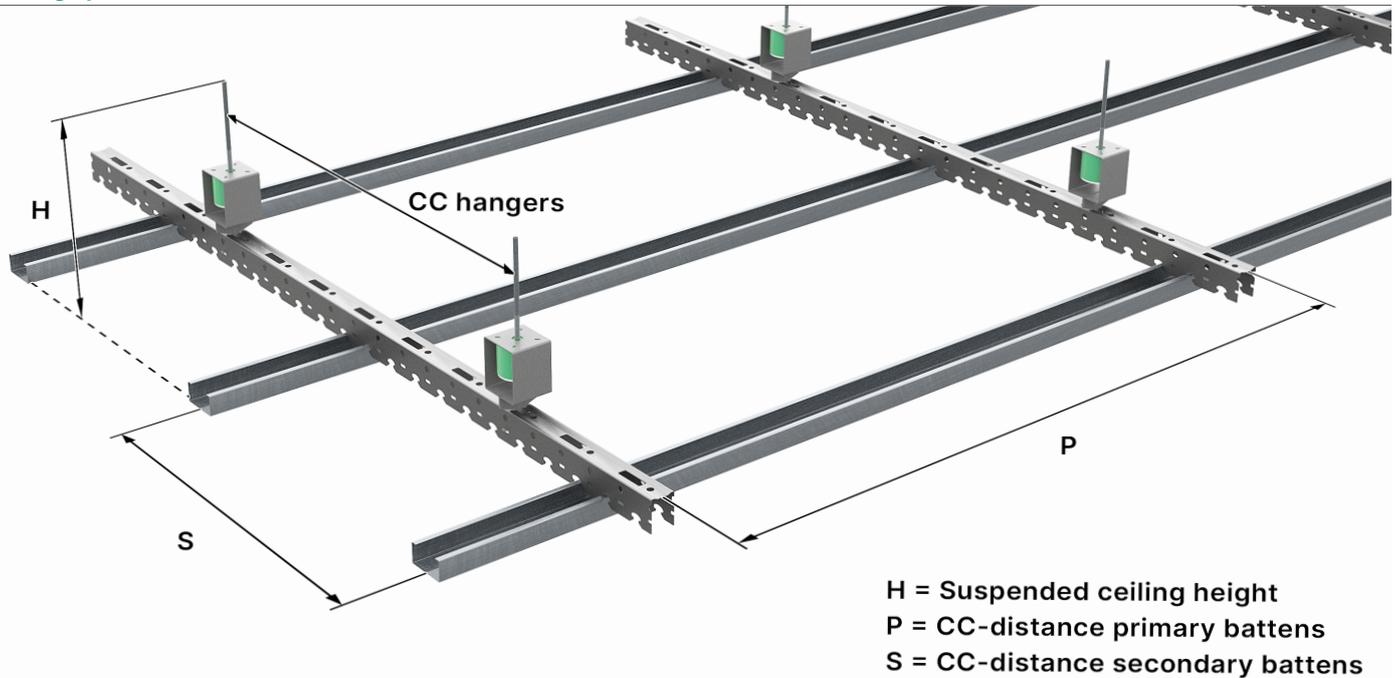
1. Perimeter isolation

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.





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 Vibratec can inform the correct cc-distances.

The primary battens can either be mounted along or perpendicular to the existing joists.

CC-distance between hangers

CC-distance between battens

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

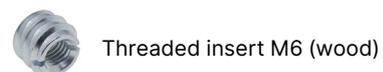
For best acoustical performance we recommend that there is an air gap of approximately 250 mm between the structural and suspended ceiling.

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 M6×20, for fastening into a wood structure use rampa nut 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.



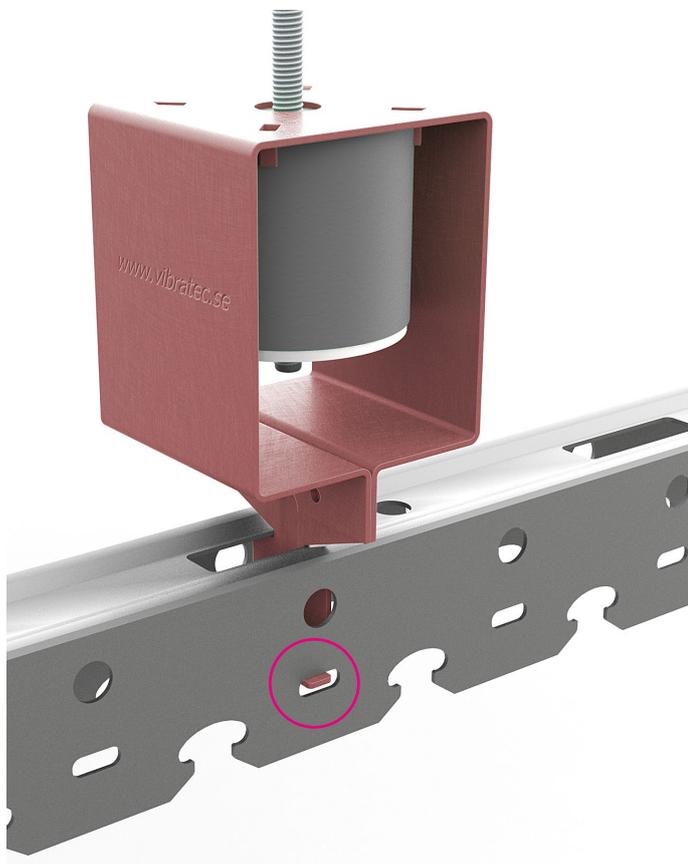
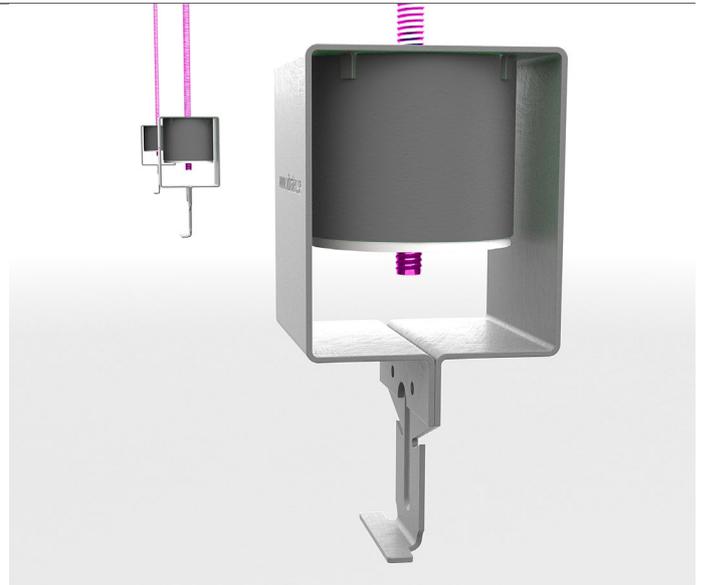
3. Install the CBC-hangers

Insert the CBC-hanger onto the threaded rods 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 but not touch the bottom of the housing.

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

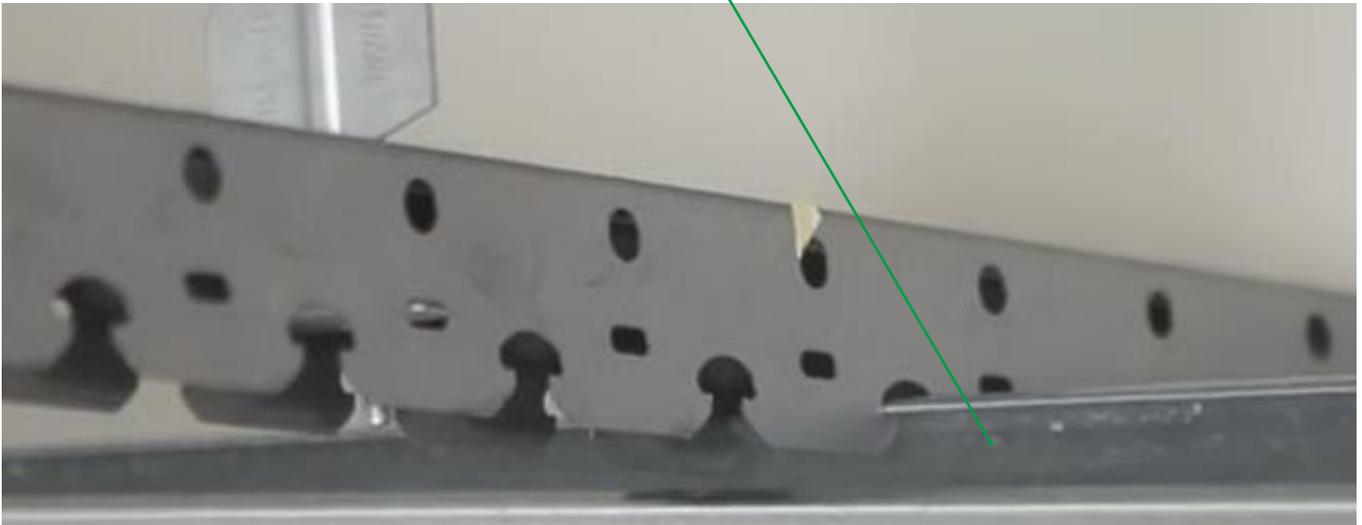
The primary profile is attached to the hangers as demonstrated in the images above. The hanger is turned 90° until it "clicks" into place. Make sure that the hanger has clicked and fits into the holes on both sides of the profile.

4.1 – Check the alignment of the battens

When the 1st layer of the ceiling framework is completely installed check so all the rows of battens are level before starting to fix the secondary battens.

4.2 – Secondary battens

The secondary C-profiles are clicked onto the primary profiles (easiest done by slightly bending of the C-profile). The C-profiles are 3 m long and can be cut into a certain length if needed. If lengthening is needed a special joint piece is used to connect two profiles (see picture below).



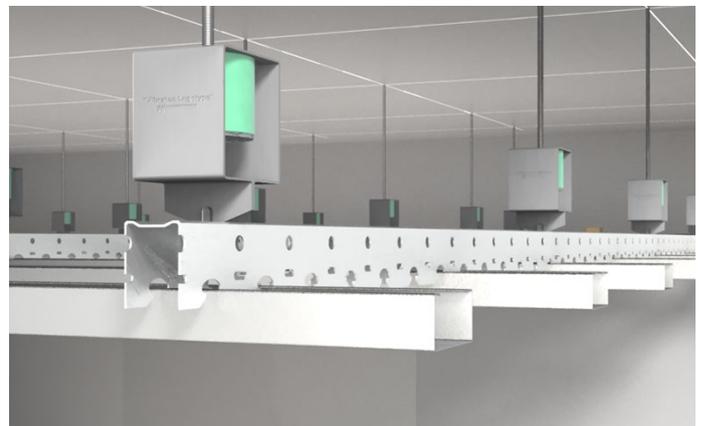
4.3 – Check the alignment of the secondary battens

When the suspended ceiling framework is completely installed check so all the rows of battens are level before starting to fix the secondary battens.

5. First layer of gypsum boards

The ceiling framework is now elastically suspended and decoupled from the floor joists by the Regufoam cushion in the hanger. Now it's time to fix the boards to the framework.

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



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 secondary battens, until the first layer is completely installed.

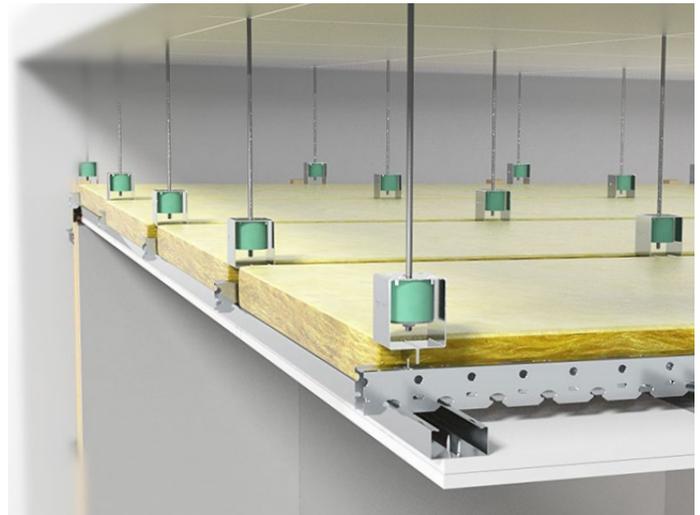


7. Continue installing the next layer(s)

When the first layer of gypsum boards is completed, and the insulation has been placed on top, continue installing the next layer, or layers, of gypsomboards. The 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 it can be recommended to use plywood as 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, 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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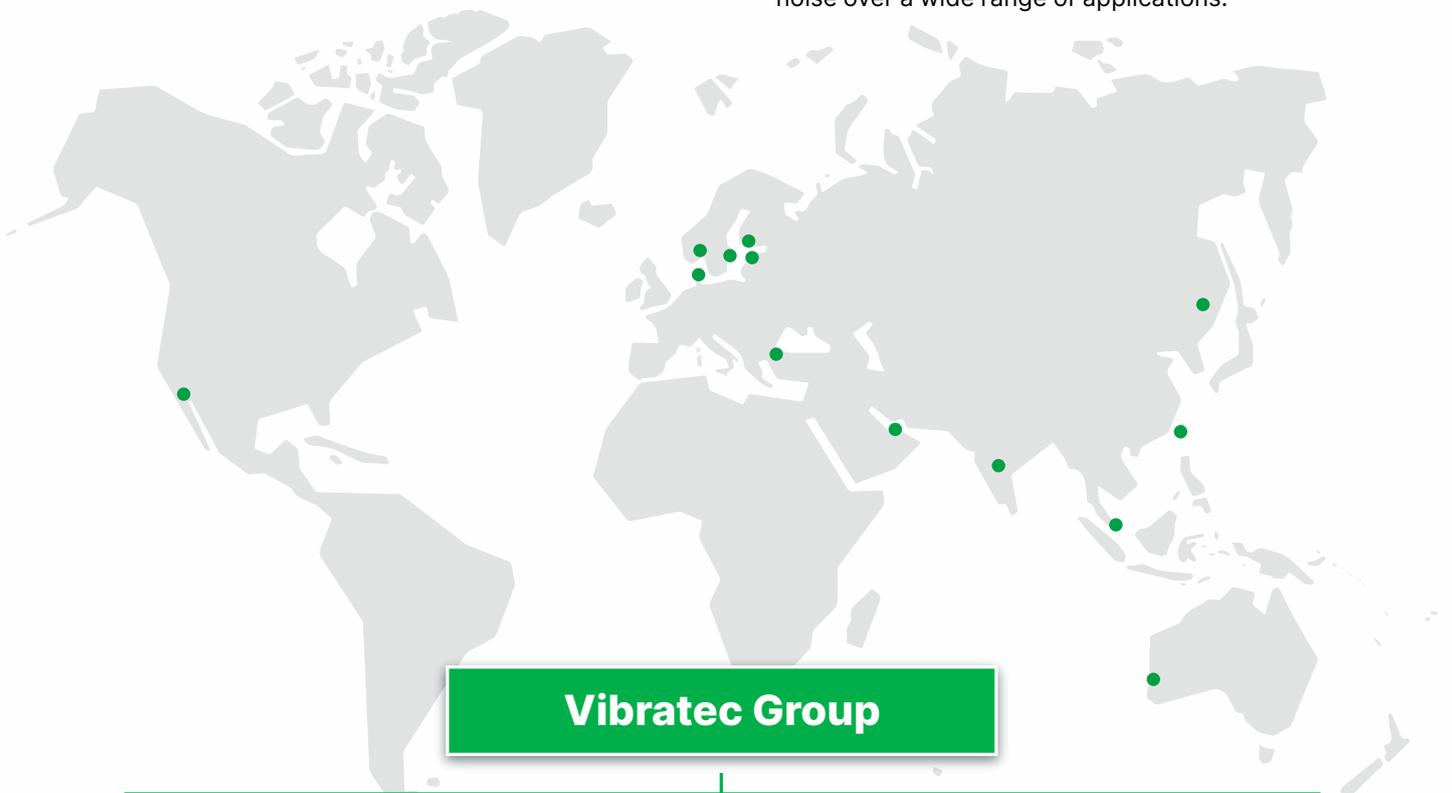
Quietly Improving Your Environment

Engineering, production and installation

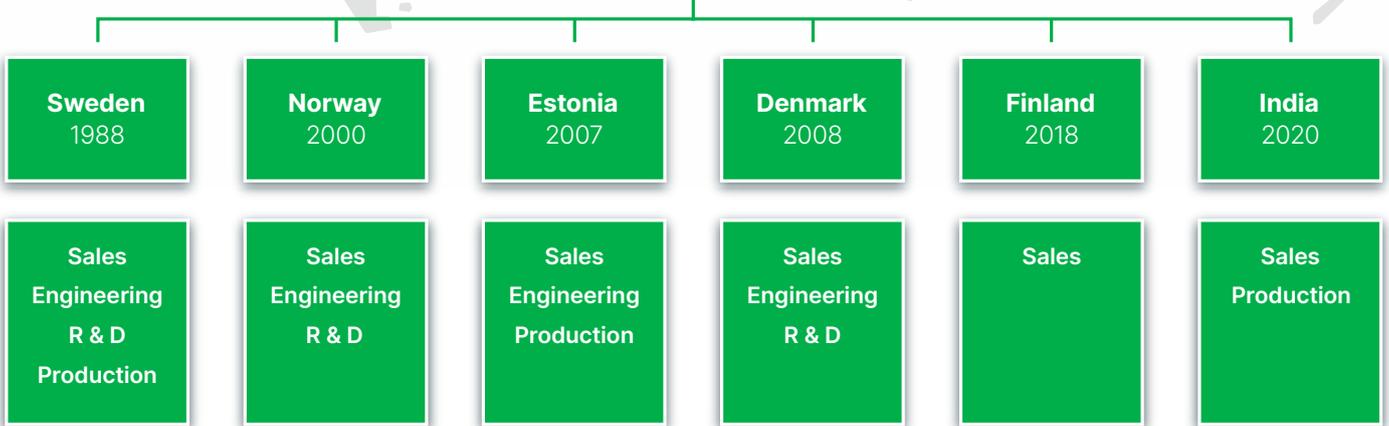
Vibratec has extensive experience, combined with the use of modern tools, when we design and manufacture tailor made solutions in all areas of vibration and noise reduction. Vibratec performs test to evaluate mechanical, physical and long term behaviour on materials as well as complete solutions.

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.



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