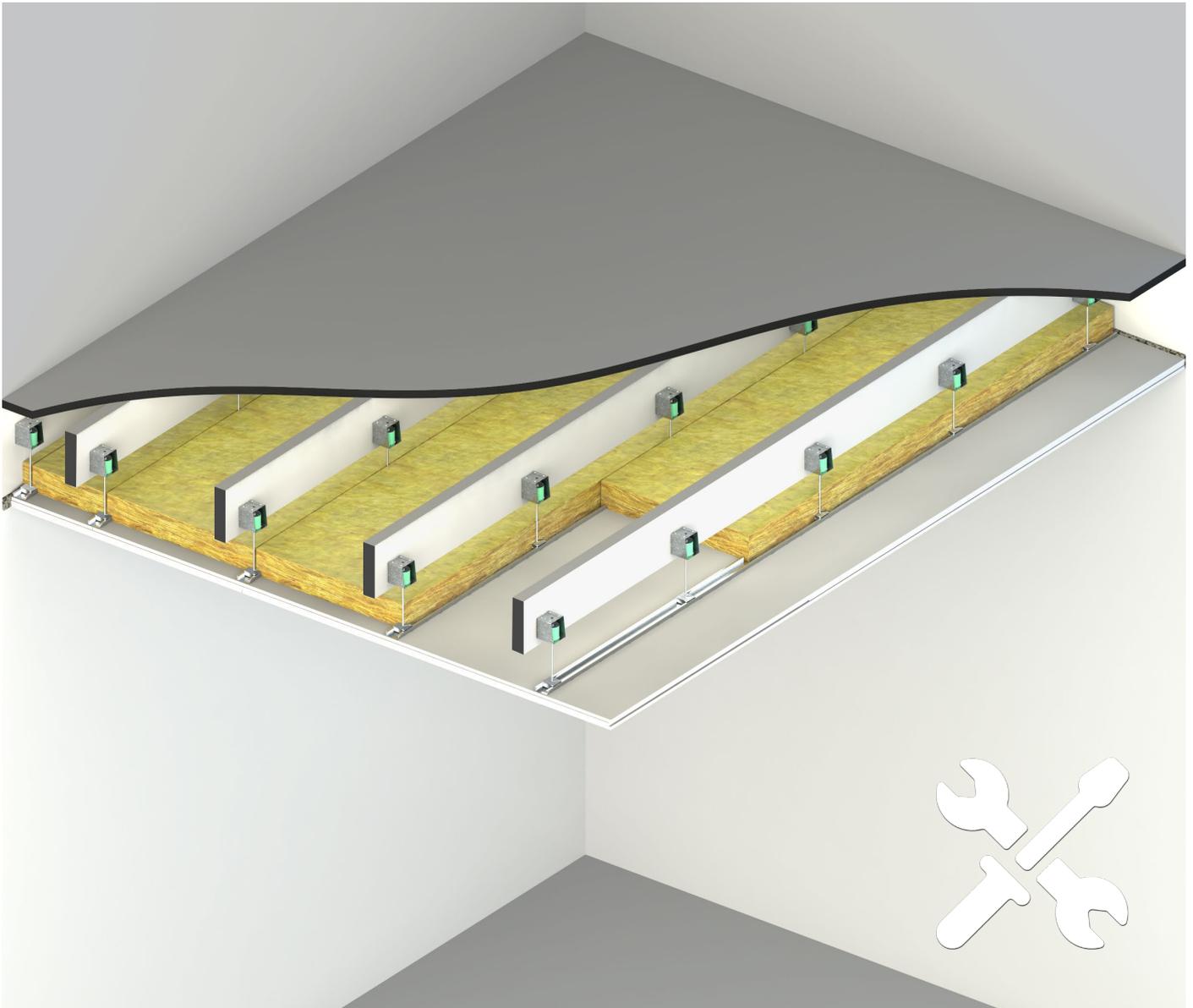


VIBRATEC

Ceiling system VT-MCH

Installation manual



Quietly Improving Your Environment

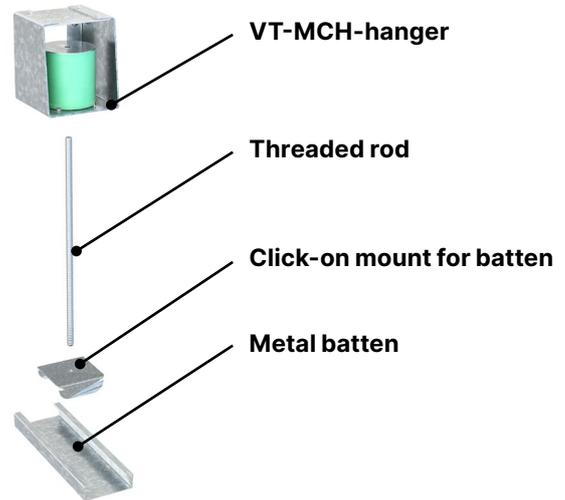
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Installation manual

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



Example of our suspended ceiling system VT-MCH with 95 mm insulation and 3 layers of gypsum boards.



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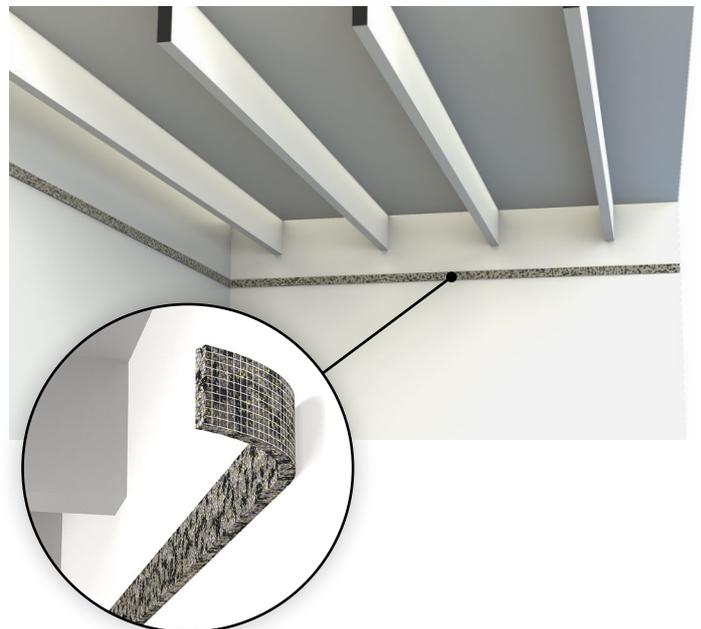
8. Seal the edges with acoustic sealant VT-FAS

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.



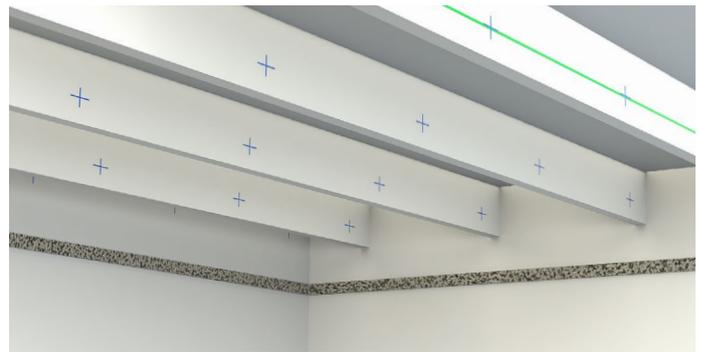
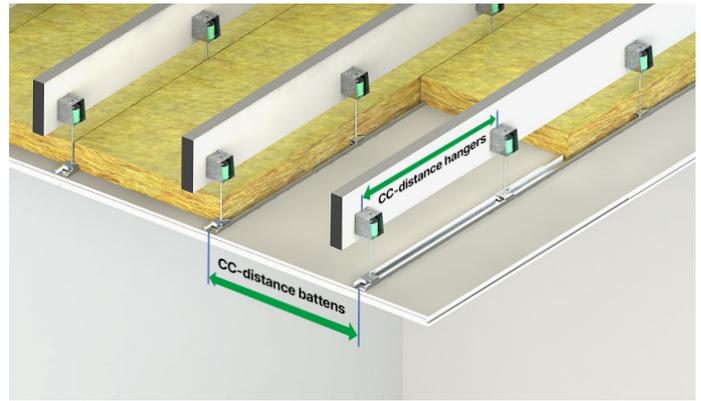
2. Mark where to mount the hangers

To ensure correct load per hanger, it is important that the hangers and battens are installed with correct c/c-distances. Depending on the ceiling weight Vibratéc can inform of correct c/c-distances. The battens can either be mounted along or perpendicular to the existing joists.

CC-distance between hangers

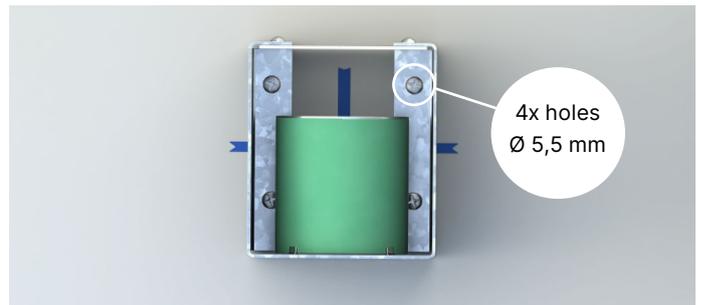
CC-distance between battens

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



3. Install the MCH-hangers

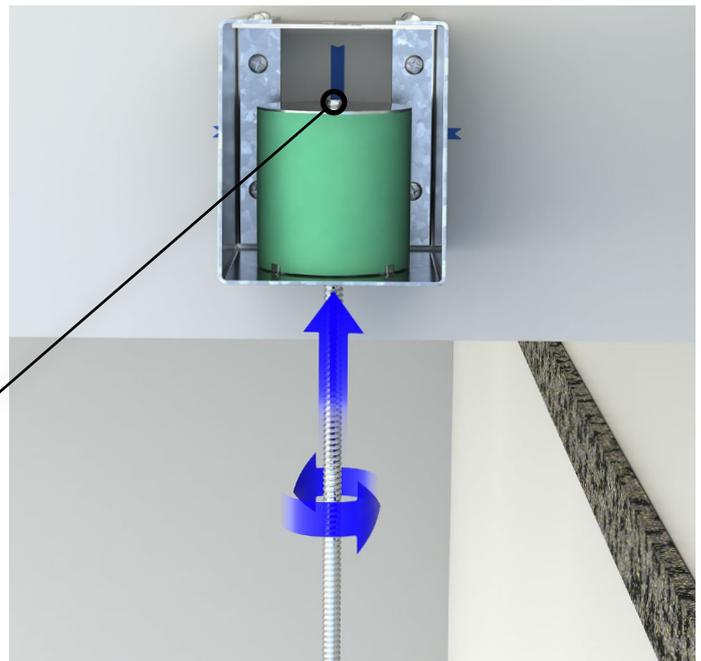
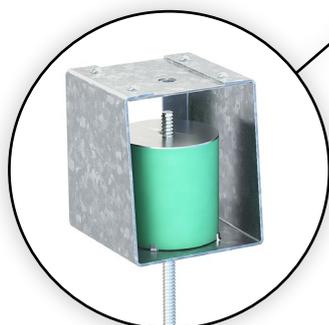
Use the appropriate screw to install the VT-MCH hanger into the joist. Depending on the type of installation you need, use the holes in the top or back of the hanger. In this example we are back mounting the hanger into the side of the joist.



3.1 – Threaded rod

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. Insert the threaded rod from underneath and fit it into the washer on top of the elastic element.

The washer has a M6 threaded insert so screw the threaded rod clockwise into the washer and it will hold it in place. The rod should go through the washer but not touch the top of the housing.



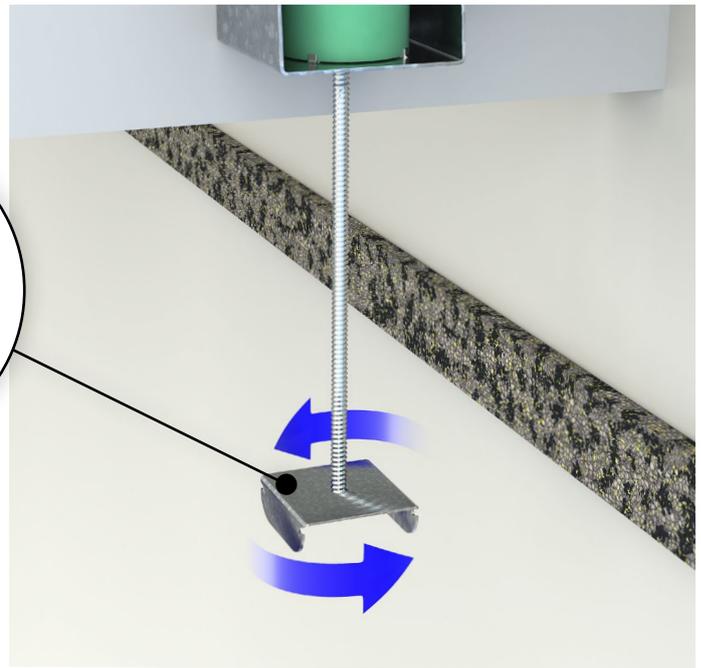
3.2 – Click-on mount

At the bottom of the threaded rod screw clockwise to mount the click-on batten mount. Make sure the rod goes all the way through.



3.3 – Level the hangers

After all the hangers are installed correctly check with a laser level to make sure they are all at the right height and that they are level.



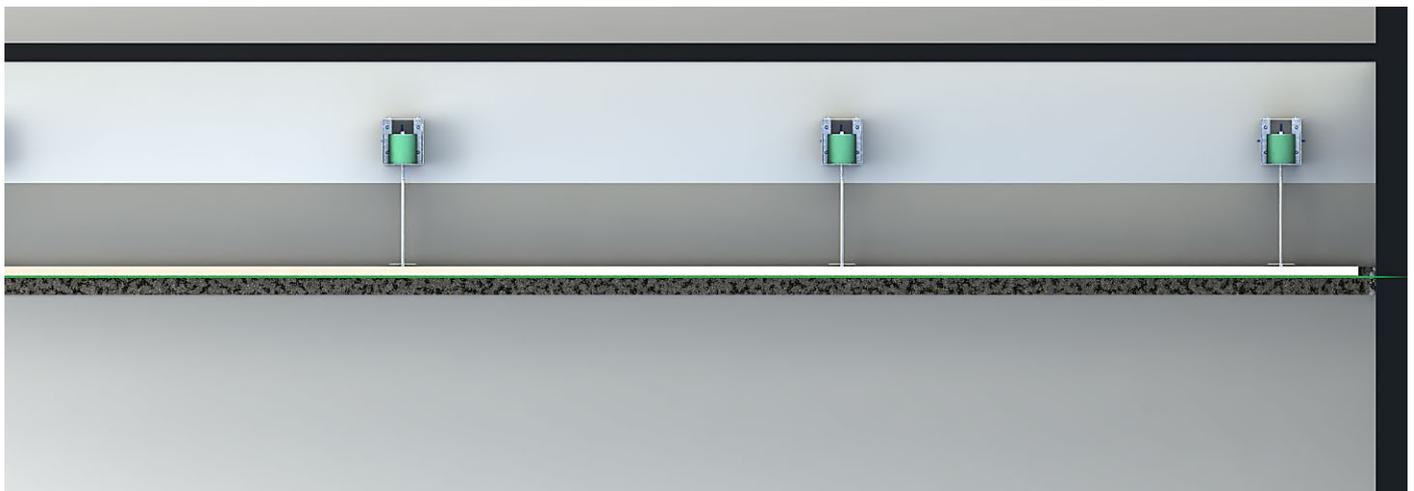
4. Mount the battens

Using the click-on mounts you can install the metal battens. The battens are now elastically suspended and decoupled from the floor joists by the Regufoam cushion in the hanger.



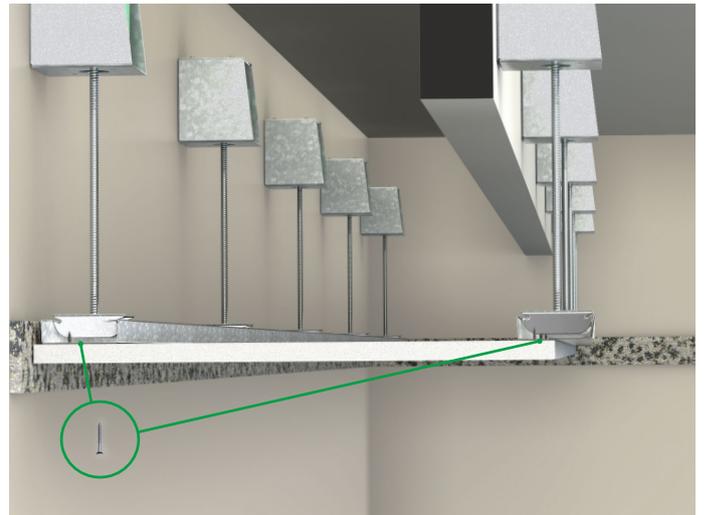
4.1 – Check the alignment of the battens

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



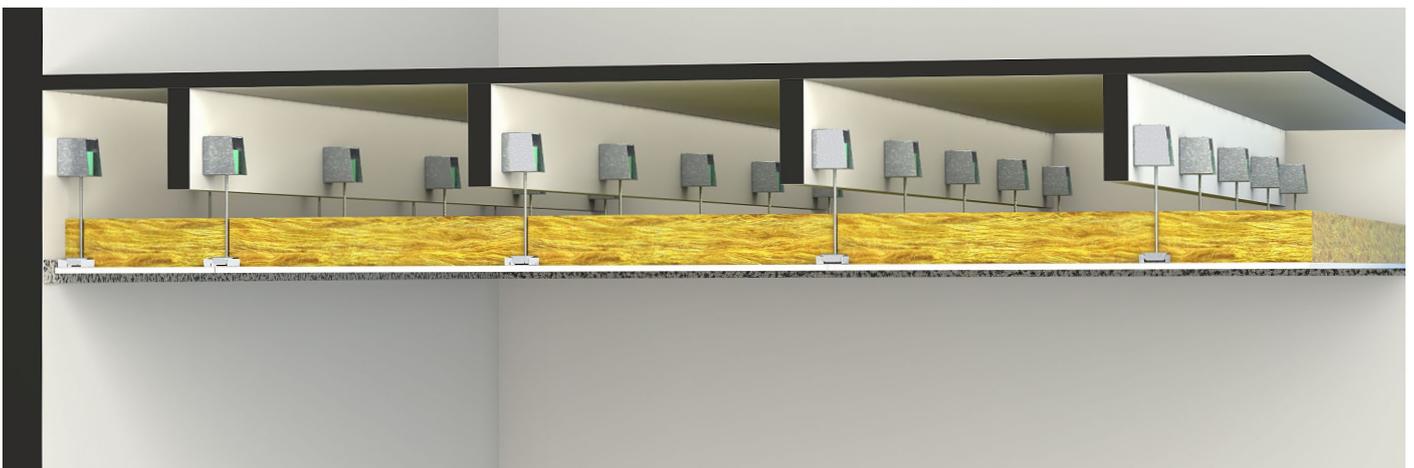
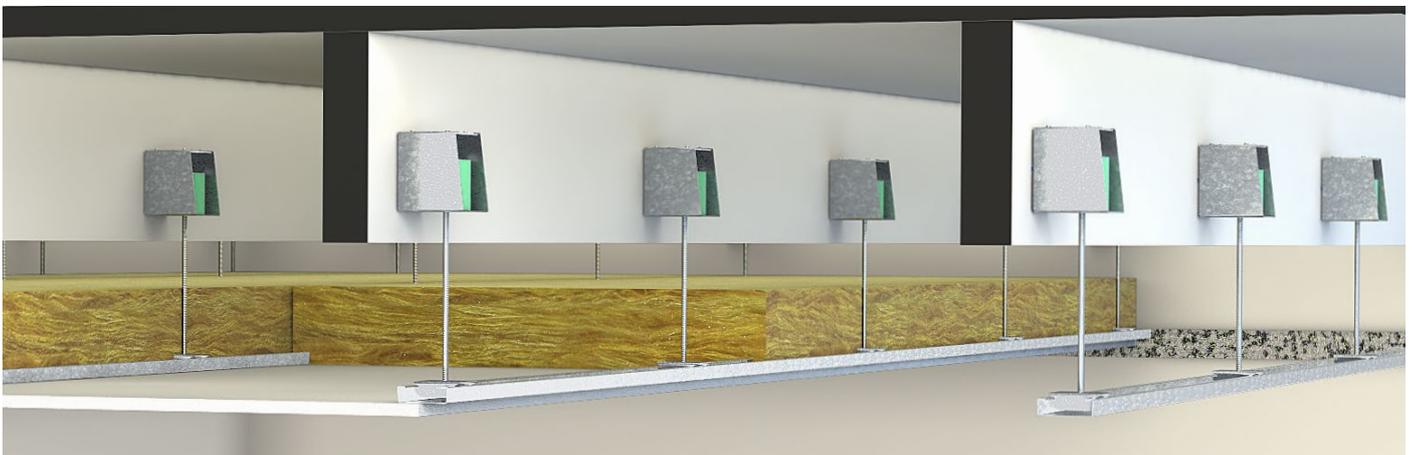
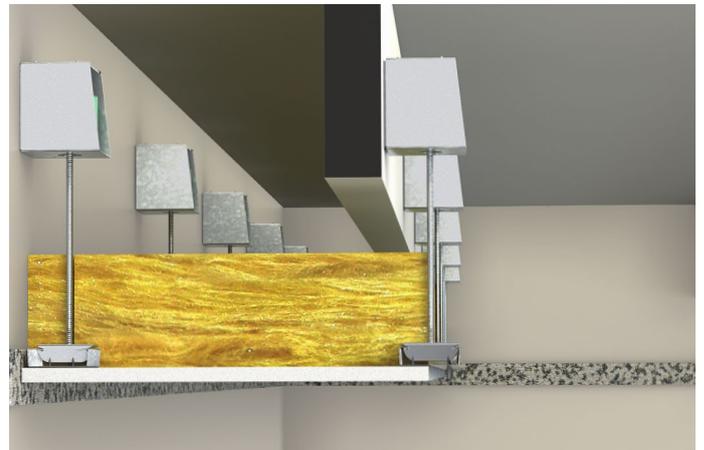
5. First layer of gypsomboards

Fix the gypsum boards to the suspended ceiling framework using suitable screws.



6. Insulation

If the ceiling plans include insulation, then the easiest way is to place the insulation after you mount each gypsum board and continue this step by step until the first layer of gypsum boards is completely installed.





7. Continue installing gypsum boards

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.

Make sure the screws are long enough to go into the battens but not too long so they push on the hangers.

Keep in mind to avoid overlapping joints when installing the next layer.

8. Seal the edges with acoustic sealant VT-FAS

When the last layer of gypsum boards 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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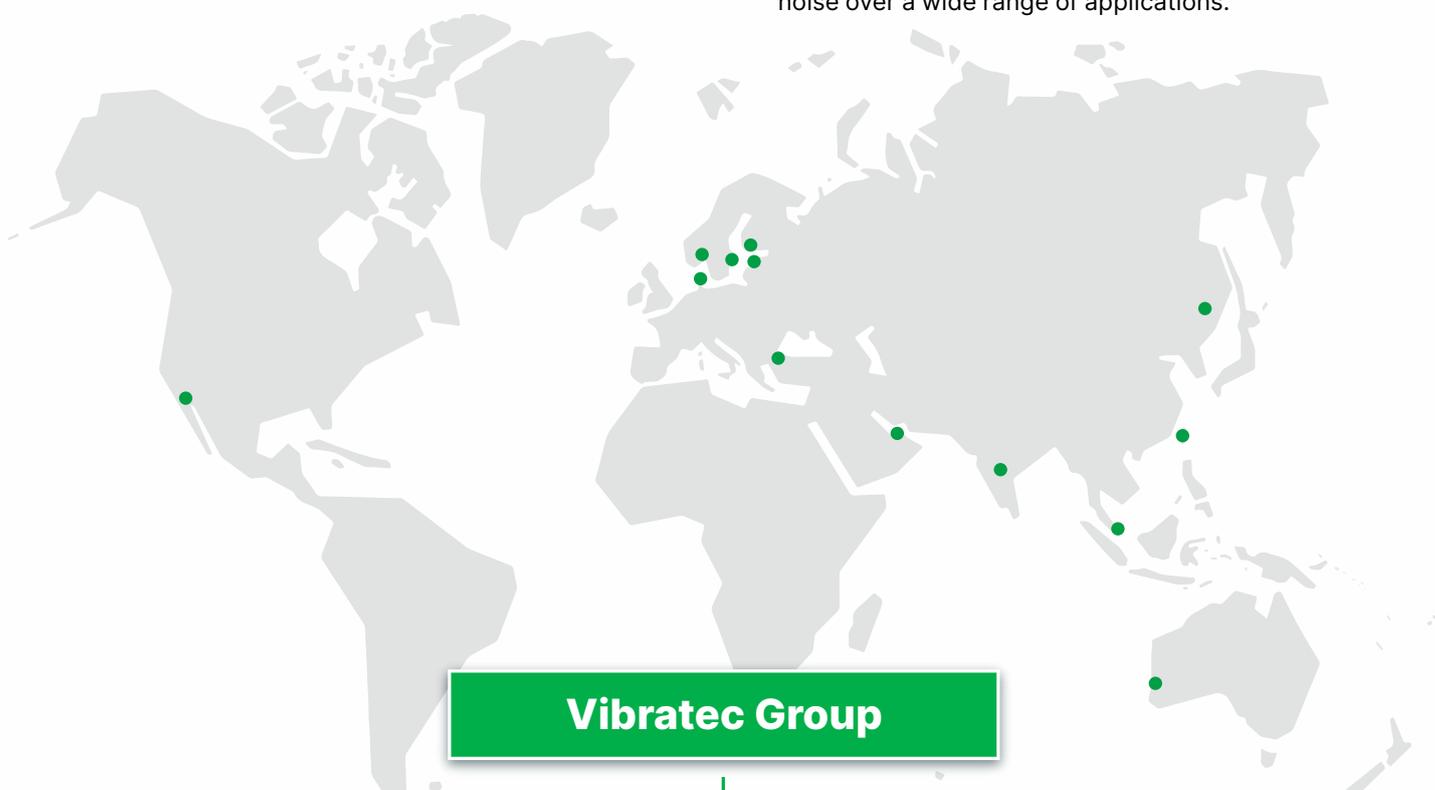
Quietly Improving Your Environment

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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