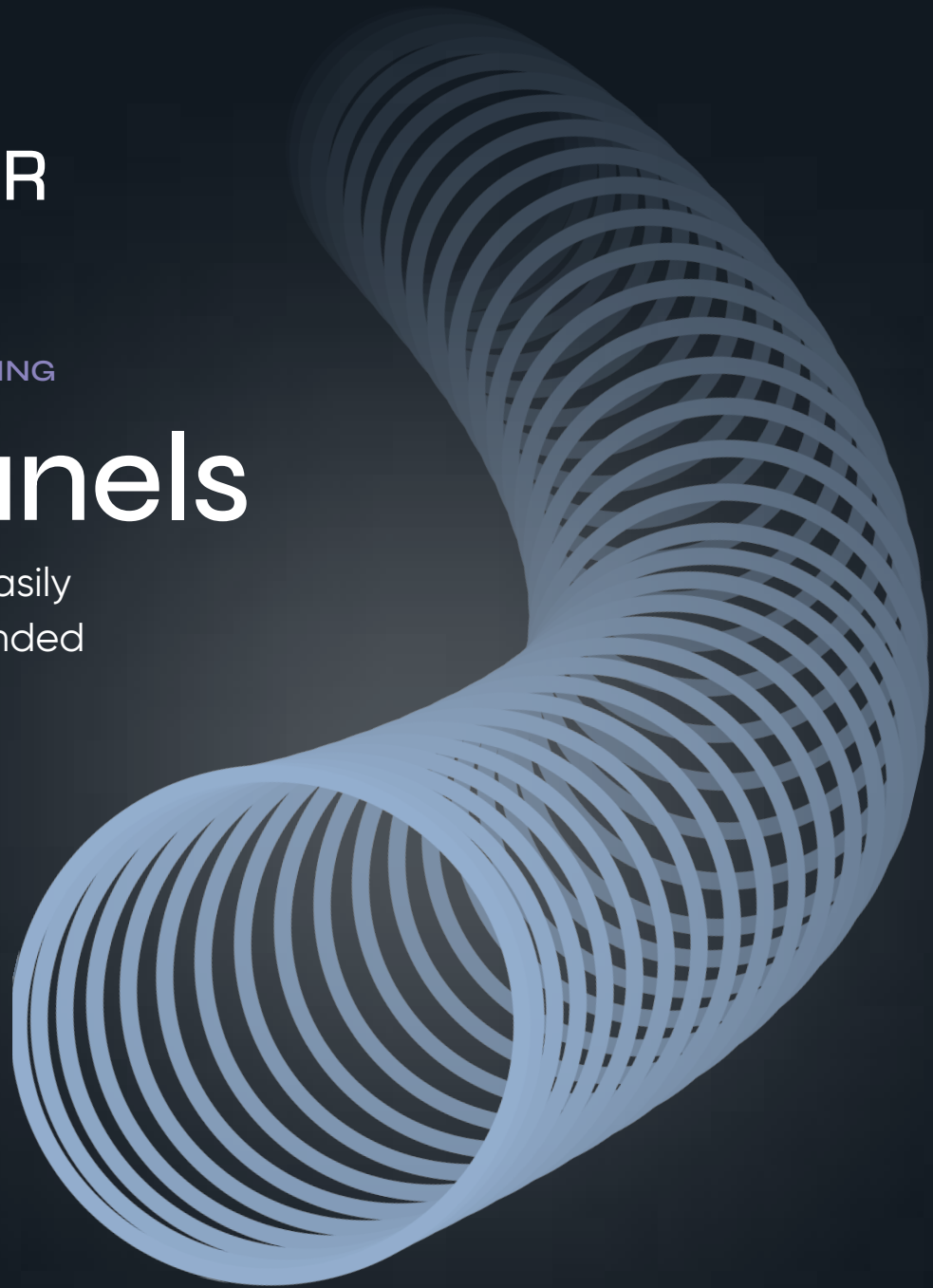




VENTILATION AND COOLING

FBS Panels

Flat ceiling diffusers easily
integrated into suspended
ceilings.



WWW.EUROAIR.EU

EURO AIR

We are here for you since 1991

In Varnsdorf, Northern Bohemia, and Vejen, Denmark, our skilled seamstresses have been tailoring textile air distribution systems for over 30 years.

We bring you solutions that combine functionality, quality, and aesthetics – all with the highest level of expertise. Thanks to our systems, you can breathe fresh air in any interior.

Euro Air textile air distribution systems are the result of a sophisticated design, maximum efficiency, and a commitment to sustainability.

With a Euro Air system, you not only get a product that perfectly meets your technical specifications but also the assurance that you are investing in technology that is safe, reliable, and designed for the future.

By cooperating with us, you get a business partner which understands the uniqueness of each interior as well as its individual requirements. We design all our solutions to blend harmoniously with the architectural design while providing maximum functionality and comfort for end users.

Learn more about Euro Air:
www.euroair.eu/en/about-us





MATERIALS



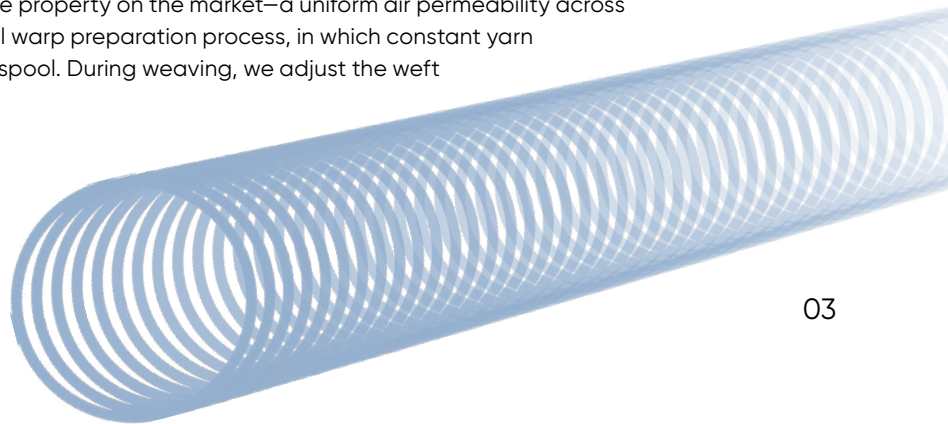
Textile with a family tradition

The TCS and DFC-HT materials, from which we tailor your air distribution systems, come from our own weaving mill in Vejen, Denmark. The KE Fibertec Væveri focuses its entire production solely on textiles for air distribution.

For production, we use flame-retardant polyester yarn, which is sourced for both materials from the same granulate. The different properties of the materials are determined by the distinct processing of the yarn.

The fabrics from our weaving mill have a unique property on the market—a uniform air permeability across their entire surface. This is ensured by a special warp preparation process, in which constant yarn tension is maintained during winding onto the spool. During weaving, we adjust the weft density to achieve the desired permeability.

Learn more about weaving mill:
www.euroair.eu/en/weaving-mill





AIR DISTRIBUTION

FBS Panels

FBS panels are specifically designed for rooms with low ceilings, we developed them with a focus on efficient and cost-effective air distribution to ensure easy breathing in every area. By using permeable materials, fresh air is delivered evenly without drafts, which is crucial for environments like schools or offices – essentially, anywhere comfort is a priority.

And what is most important? FBS panels operate at very low pressure losses, which means energy savings and long-term efficiency. All this ensures that you have not only a functional solution but also the satisfaction of knowing you made the right choice for your projects.



Fresh Air Supply

FBS Panels provide ventilation without causing unpleasant drafts.



Seamless installation

The installation is done without any tools - you can do it yourself in a moment.



Significant Energy Savings

Low pressure loss results in reduced energy consumption and operating costs.



Stylish Design

Available in 7 colour options that easily match any interior.



Quiet for Maximum Focus

With low noise (<20 dB(A)), they ensure a quiet environment, ideal for offices or schools.



10-Year Warranty

We offer a 10-year warranty on the material and function of all components of the system.



Easy and Quick Maintenance

Maintenance is simple, just remove the bottom part. Fast, easy, and trouble-free.



Standardized Solution

Panels are designed to fit standard cassette ceiling dimensions.

Efficient Air Distribution

FBS panels are made from flame-retardant textiles, ensuring safe ventilation in every environment. The top part of the panel is non-permeable, directing all air into the room without leakage into the ceiling space. This ensures that the entire visible surface of the panel is actively used for air supply, guaranteeing low air velocity and draft-free distribution.

FBS panels are an ideal solution for cooling or isothermal air supply, where even and comfortable air distribution is key. They replace conventional ceiling units while providing better comfort and efficiency

Solution for Low-Ceiling Spaces

With a flexible textile top, FBS panels are ideal for spaces with limited ceiling height. Their lightweight design allows for easy installation, similar to standard ceiling tiles, without the need for additional suspension or mounting.

The panels are fully integrated into the ceiling, providing an aesthetic and functional ventilation solution. They are best suited for environments like schools, offices, and other spaces with high comfort requirements.

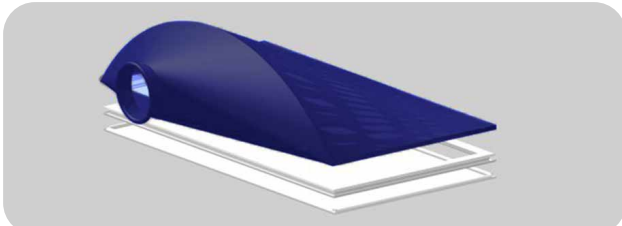
FBS PANELS

Variants

We offer FBS panels in two standard dimensions of suspended ceilings, namely 600x600 mm and 1200x600 mm. All manufactured panels are equipped with a flexible connection with diameter Ø160-250 mm.

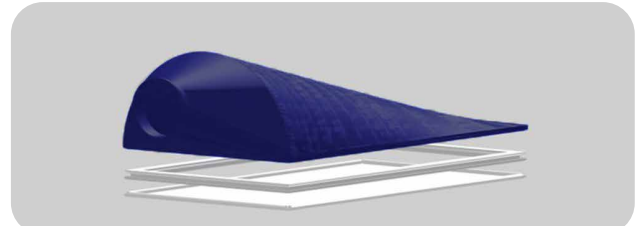
For 1200x600 mm panels, the inlet can be placed either on the longer side of the panel (Side Variant) or on the shorter side (End Variant).

The 600x600 mm panels always have a connection at the end of the panel (End Option), however, thanks to the possibility of twisting the panels, the orientation of the inlet can be easily adapted to the requirements of the installation. Both variants of the size can also be produced in a Combi version, which allows the panels to be connected with each other. On request, we can also produce panels in non-standard dimensions.



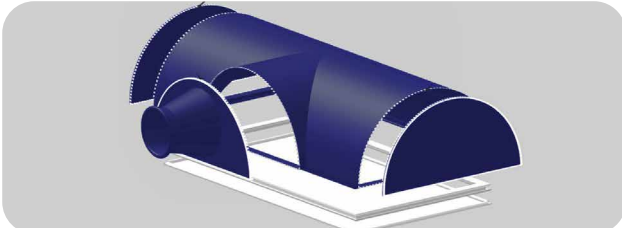
Variant: Side

Dimensions: 1200x600



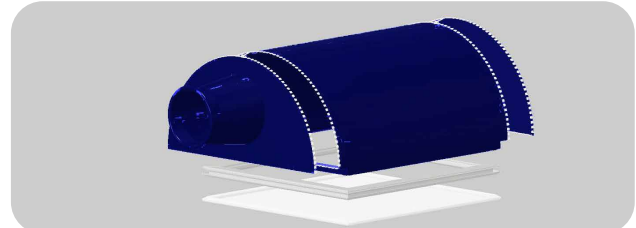
Variant: End

Dimensions: 600x600 / 1200x600



Variant: Combi

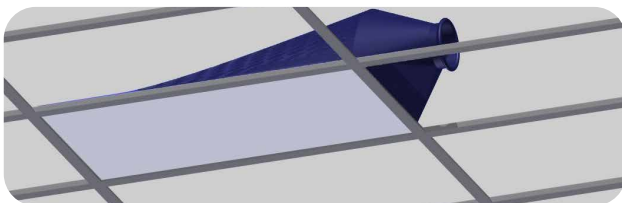
Dimensions: 1200x600



Variant: Combi

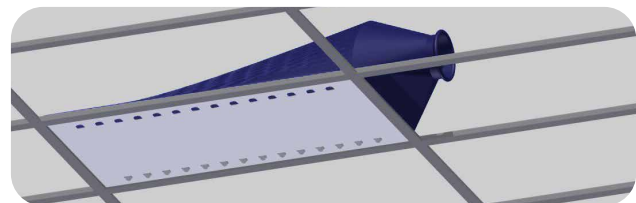
Dimensions: 600x600

All variants are available as a permeable solution in 4 possible permeabilities or as a solution with DFC baffles for wider directional air distribution in 2 permeabilities.



06 Type: 1 (Permeable solution)

Permeabilities: 325 / 550 / 775 / 1240



Type: 2 (Solution with DFC baffles)

Permeabilities: 325 / 550

FBS PANELS

Components

FBS panels are designed for maximum flexibility and easy maintenance. They are made of 3 separate parts that can be quickly disassembled and replaced without the need of any tools. This means they can be easily adapted to new requirements or relocated to other areas of the ceiling if required.

If the top of the panel no longer suits your installation needs, you can simply replace it with a new one without the need to replace the entire panel.

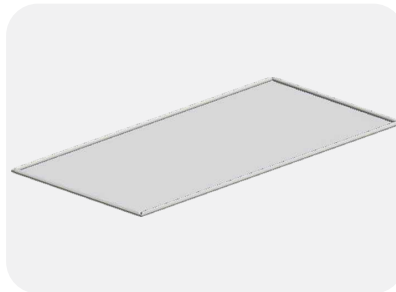
Alternatively, the bottom panel can be easily removed for cleaning or replacement, which provides an advantage in easy maintenance as well as extending the life of the system.

In addition, FBS panels can also function as a 100% diffusion ceiling. In this case the air is blown into the chamber above the suspended ceiling to diffuse out through the air-permeable panel, without the need of the top part of the panel.



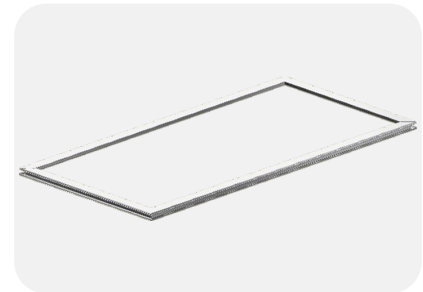
Top part

Variants: Side / End / Combi



Bottom part:

Type: 1 / 2



Frame

FBS PANELS

Colours and Materials

The top of the FBS panel is standardly made of the non-permeable material DFC-0, which ensures that air flows only into the space under the ceiling. This part is supplied in dark blue. The bottom part, which is visible, is made of TCS material and we offer it in 7 different colours.



WHITE
RAL: 9010



BLACK
RAL: 9005



LIGHT GREY
RAL: 9002



DARK GREY
RAL: 7042



DARK BLUE
RAL: 5002



YELLOW
RAL: 1028



RED
RAL: 3031



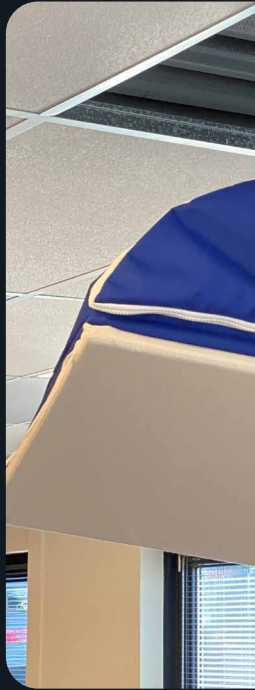




Photo: BLT Luchttechniek

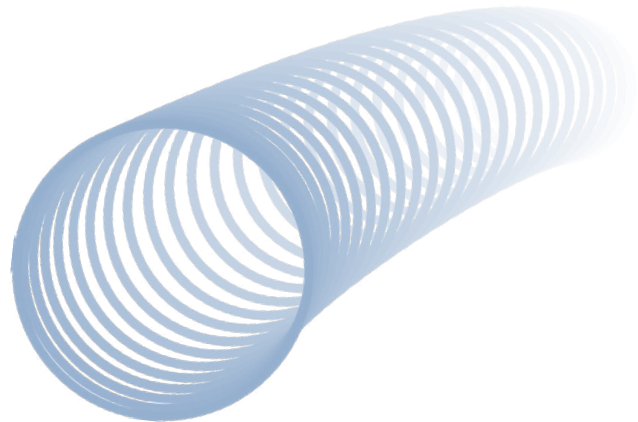
FBS PANELS

Easily installed in a moment

The installation of an HVAC system for lowered ceilings is simple and you can do it in few minutes. Just follow 4 simple steps:

1. Remove the ceiling cassette that will be replaced and the neighbouring cassette in the direction of the connection.
2. Into the free area, place the diffuser, which is designed to fit perfectly into the grid.
3. Connect the air inlet and make sure the diffuser is seated properly.
4. At the end, put back the neighbouring ceiling cassette that was removed to access the mounting.

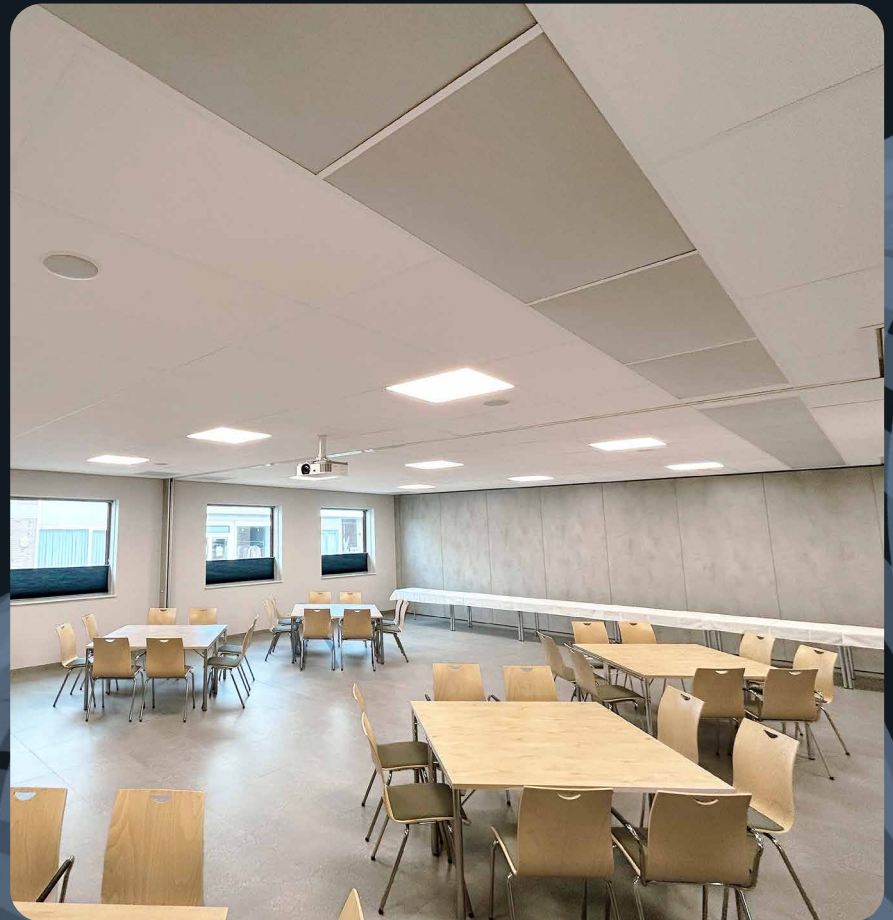
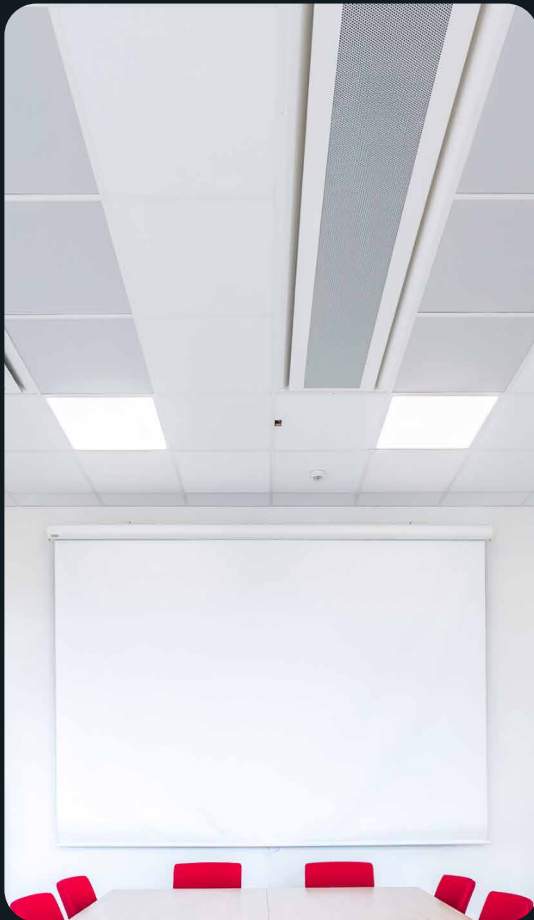
The whole process is very easy and does not require any special tools.

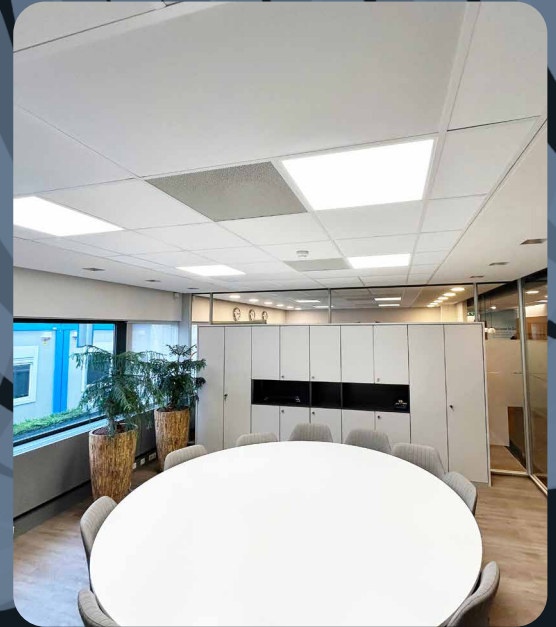
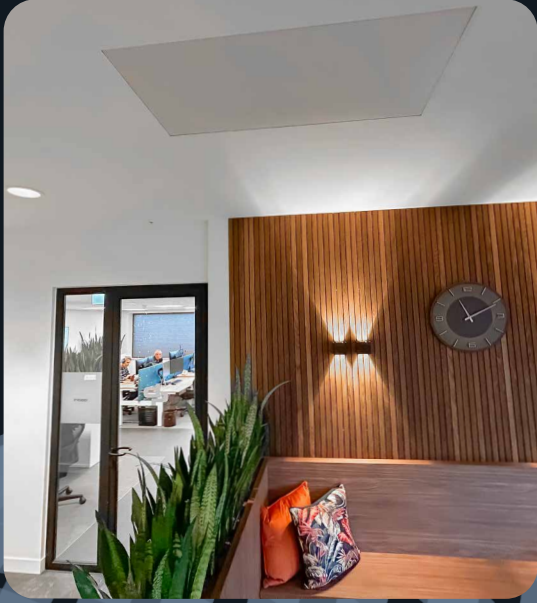


FBS PANELS

Your premises, our solution

Thanks to the use of permeable materials, fresh air is delivered evenly, without draughts, which is crucial for environments such as schools and offices. Simply everywhere where comfort is a top priority.



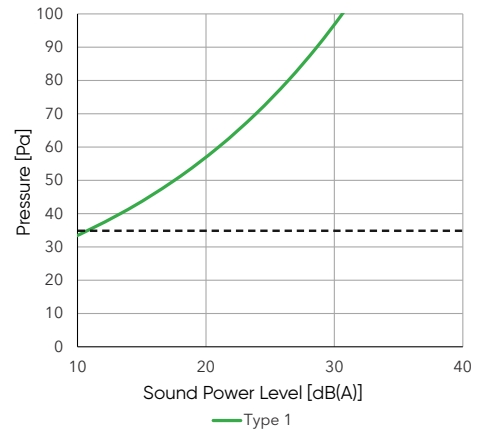
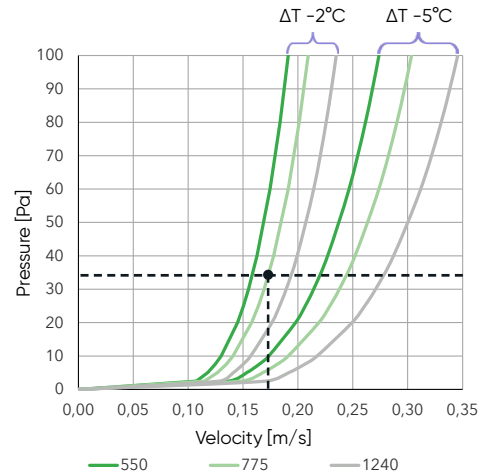
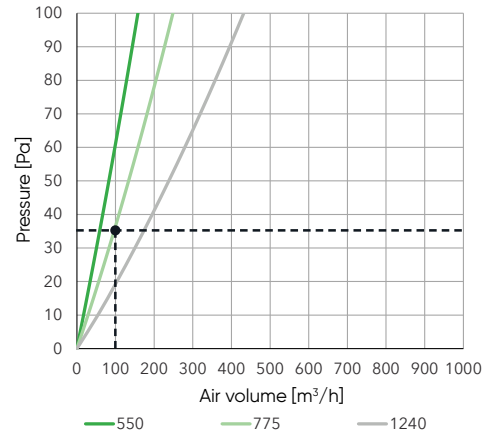
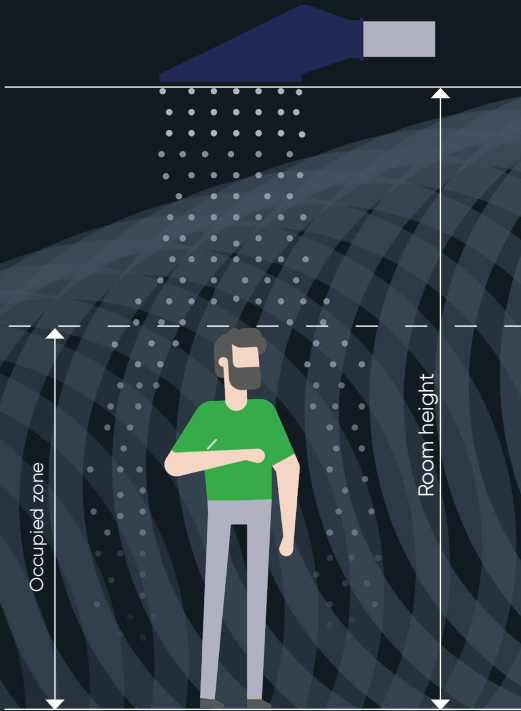


Technical study

Example: Type 1 (775) - 600x600

At a pressure of 35 Pa and $\Delta T -2^\circ\text{C}$ the air volume is 100 m^3/h , the air velocity in the occupied zone is 0.17 m/s and the sound level is $<10\text{ dB(A)}$.

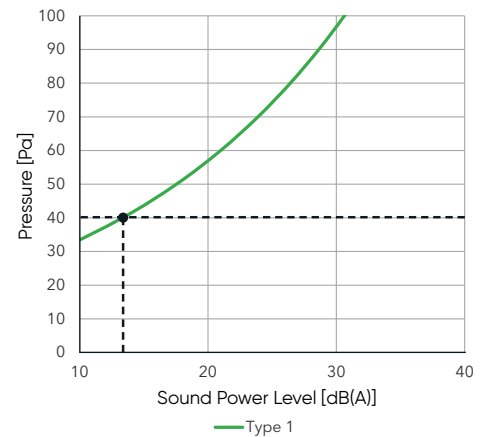
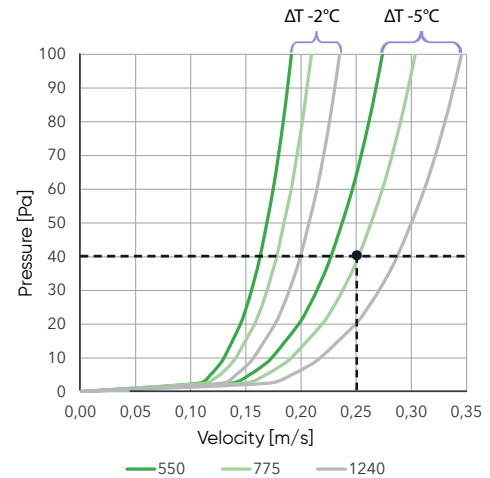
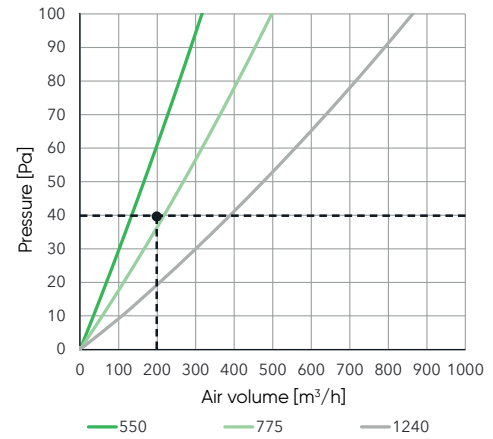
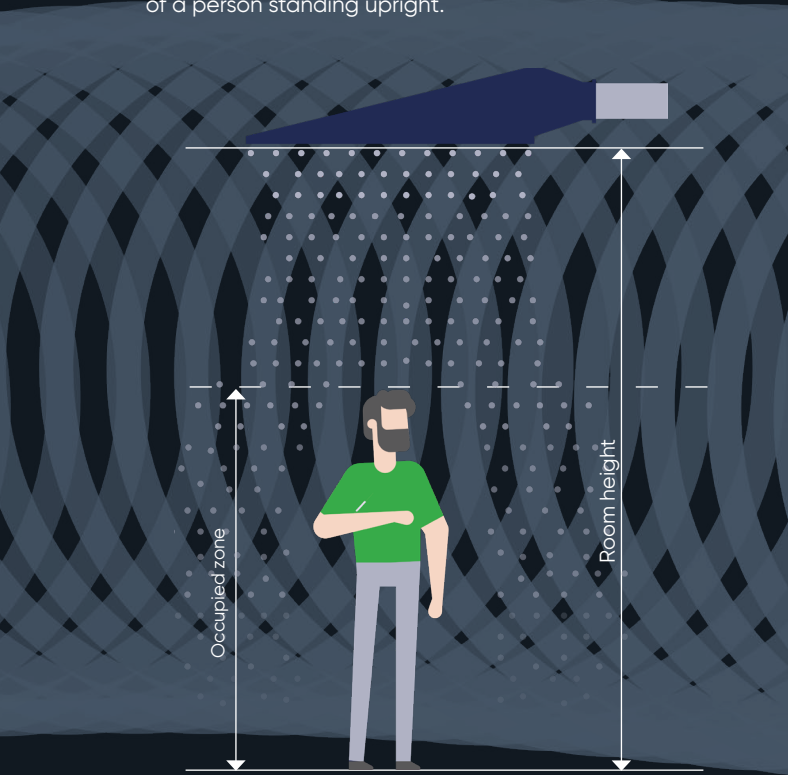
The situation therefore meets the criteria for the room category A according to EN 1752. The FBS panels type 2 with DFC baffles will generate a sound power level of 14 dB(A).



Example: Type 1 (775) - 1200x600

At a pressure of 40 Pa and $\Delta T -5^\circ\text{C}$, the air volume is $200\text{ m}^3/\text{h}$, the velocity in the occupied zone is 0.25 m/s and the sound power level is 13 dB(A) . This situation meets the criteria for room category B according to EN 1752.

These 2 cases both assume a room height of $2,5\text{ m}$ and an occupied zone of $1,8\text{ m}$, which is approximately the height of a person standing upright.



FBS PANELS

Maintenance

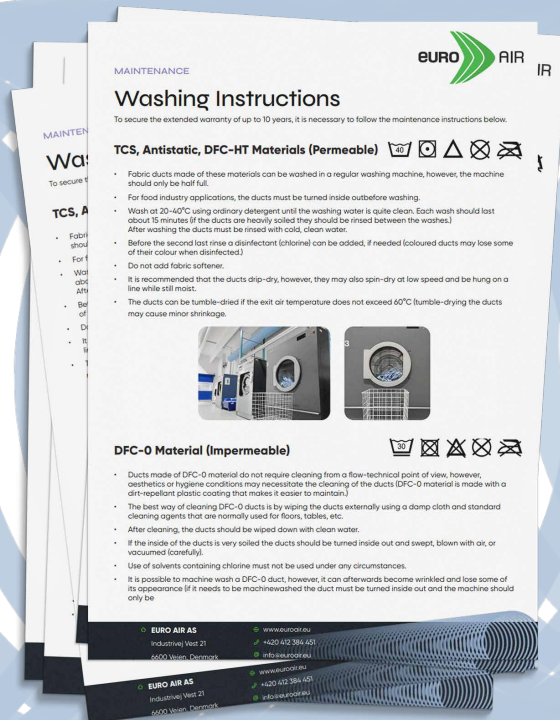
For washing, only the visible (bottom) part is always removed, which does not require any tools. The fabric should be washed at a temperature of up to 40 °C, according to the washing instructions for the material.



FBS PANELS

Warranty

We are absolutely sure about the quality of our products and that is why we offer a 10-year warranty. This covers all system components and their functionality, which ensures you long-term reliability.



FBS PANELS

BIM Objects

We also provide panels in standard sizes 600x600 and 600x1200 as BIM components for Revit. This makes it easy to integrate the components into your design, both with and without perforations. They also include technical calculations, so you will have an instant insight into the effectiveness of the designed solution.

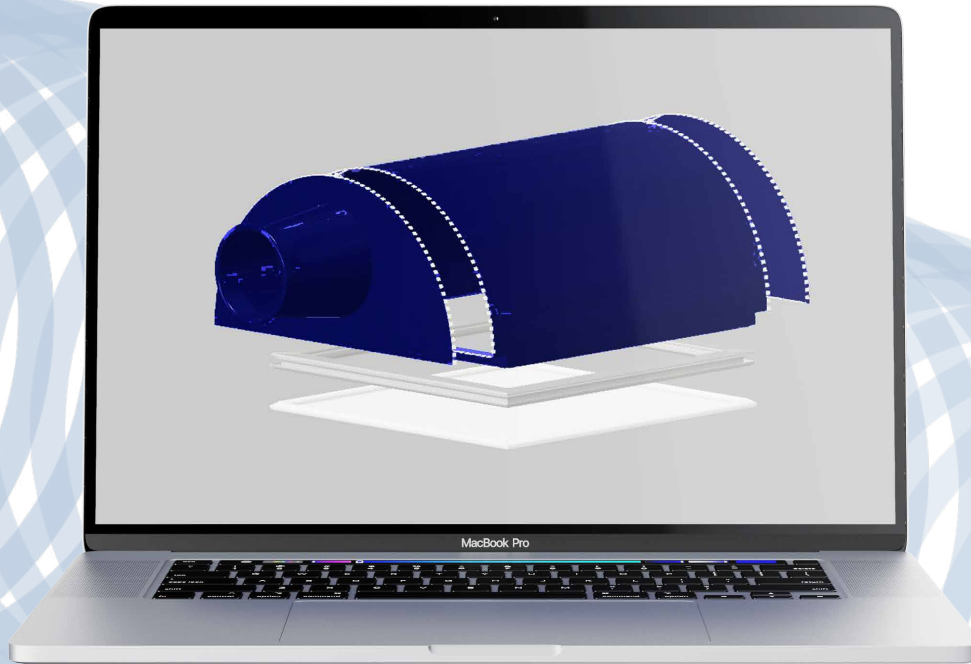
If you are interested in BIM components, please do not hesitate to contact us.

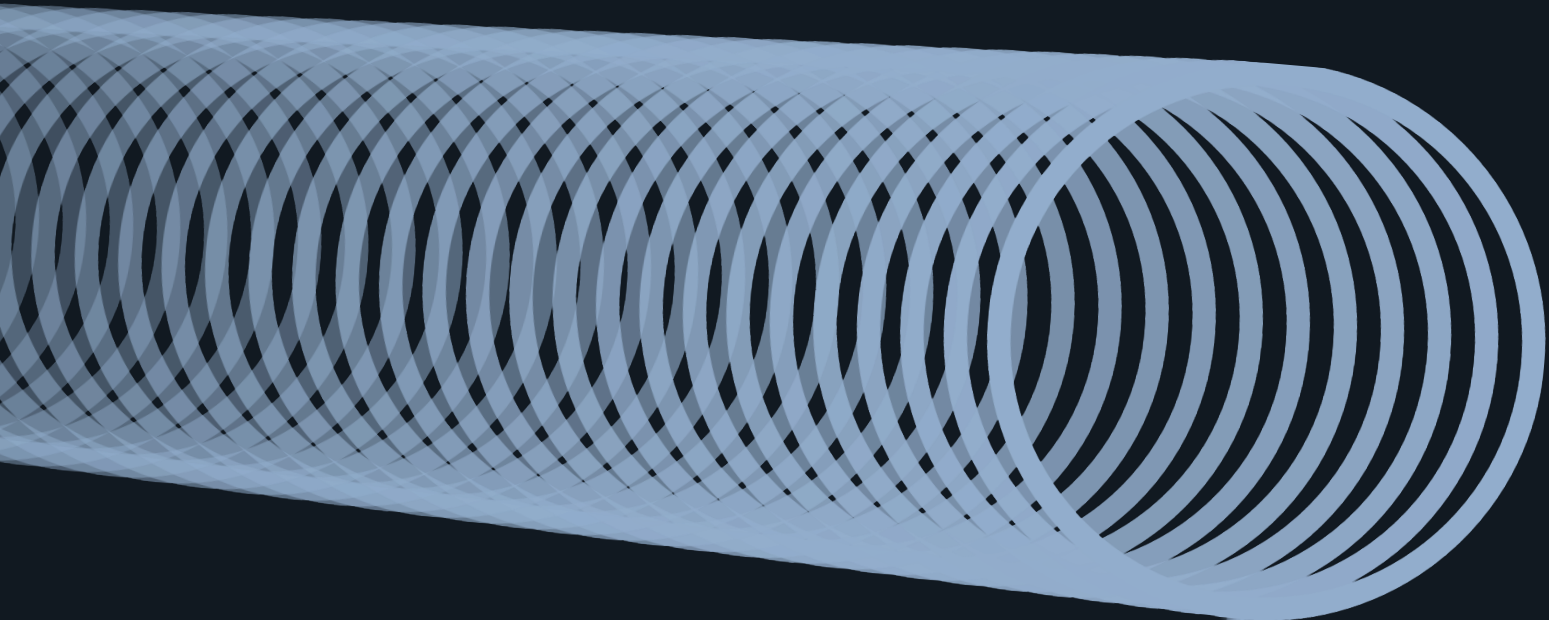
FBS PANELS

Special offer

When ordering FBS panels 1200x600 Side Variant Type 1 (775) or 600x600 End Variant Type 1 (775) in white or light grey, we offer the possibility of dispatch within 48 hours (in working days) after order confirmation. The maximum number for this quick expedition is 10 pieces per order.

For other types, colours or orders exceeding 10 panels, our standard delivery terms apply.





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