



Troldtekt® ventilation

Conference centre with stunning views and a healthy indoor climate

Hotel Koldingfjord is set on the banks of Kolding Fjord in East Jutland (Denmark), surrounded by woods. As part of a recent refurbishment project, Arkitema Architects and DEAS chose ventilation ceilings from Troldtekt for the exclusive conference rooms.

Corporate functions, general meetings, weddings, exhibitions and courses. These are some of the major events hosted at the conference rooms at Hotel Koldingfjord. The picturesque setting, the architecture and the atmosphere all work together, and the hotel's two exclusive conference rooms – Bøgesalen and Magnoliesalen – seat 250 and 300 people, respectively.

The premises were extensively renovated and expanded in 2015, with the help of Arkitema Architects and DEAS. The extensions have doubled the capacity of the rooms, while respecting the heritage of the building. Troldtekt ventilation ensures superior acoustics and fresh air in both conference rooms.

“We find that the indoor climate in the conference rooms exceeds the already high expectations of our guests. The ventilation solution ensures that the air is evenly distributed in the room, while the ceilings also ensure excellent acoustics,” says Peder Madsen, CEO of Hotel Koldingfjord.

Acoustic ceiling distributes air evenly

Troldtekt ventilation was chosen because the solution ensures the even distribution of fresh air in the room without draughts or visually disruptive elements.

“We saw great potential in Troldtekt ventilation. The ceiling provides diffuse ventilation over the entire surface, ensuring an excellent indoor climate – whether there are



50 or 300 guests. There are no high-velocity air inlets to bother guests, and it is a holistic solution that combines superior acoustics and ventilation," says Lars Lindegaard Olsen, Senior Project Manager from DEAS.

The fresh air flows in at low pressure through active acoustic panels in the Troldtekt ceiling. Troldtekt ventilation effectively uses the entire ceiling as a ventilation surface. The benefits of the system have been extensively documented by researchers from Aalborg University and the Technical University of Denmark.

"The solution ensures that no guests are bothered by draughts. The active panels keep the temperature and atmosphere comfortable everywhere in the room. The conference room Bøgesalen can be scaled up or down in size depending on the number of guests, and the ventilation solution also takes this into account," says Peder Madsen.

Impressive ceiling height with no visible installations

In both conference rooms, guests can enjoy a ceiling height of almost five metres. This is possible in part because the technical installations for the ventilation system have been installed at the ends of the rooms.

"Having concealed installations results in a uniform and stylish look. It's a huge advantage that the system emits no noise at all. This makes it easy to be heard in the rooms,

and makes events feel more intimate. Our guests frequently praise this aspect," says Peder Madsen.

The conference rooms are in high demand, so reliability is also very important.

"The ventilation system is easy to operate, and we have never experienced any problems. Both lighting and sound are integrated in the ceiling, making it a multifunctional solution that ensures good ventilation, acoustics and comfort," says Peder Madsen.

Lars Lindegaard Olsen from DEAS is also very satisfied with Troldtekt ventilation. DEAS is responsible for running and maintaining Hotel Koldingfjord.

"We've never had any complaints or negative comments about the indoor climate in the conference rooms, no matter what the season or number of guests. This is quite impressive," says Lars Lindegaard Olsen.

FACTS

Project: Extension to Hotel Koldingfjord's conference facilities, De

Architect: Arkitema Architects

Consultants: DEAS

Owner: PKA/State Registered Nurses' and Medical Secretaries' Pension Fund

Ceiling: White Troldtekt acoustic panels and Troldtekt ventilation

Troldtekt® ventilation

Troldtekt ventilation uses the entire ceiling as a ventilation surface. Therefore, there are no visible ventilation ducts to gather dust and obstruct the daylight.

The ventilation ceiling ensures an even distribution of air without draughts or noise. The sound-absorbing properties of the Troldtekt acoustic panels ensure

optimum acoustics in every room. The air is distributed at low pressure, which means that the solution uses more than 70 per cent less energy compared to conventional ventilation solutions.

Troldtekt acoustic panels are made from the natural materials wood and cement. In addition to good acoustics and a healthy indoor climate, the panels have good fire protection properties. Troldtekt is Cradle to Cradle-certified in the silver category.

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