

PRACTICE REPORT 54

Application examples for planners of complex construction projects

VENTAFLEX®

More efficiency in air guidance



New construction of the clinic for children and adolescents in Freiburg: a good concept to get well

Application area for VENTAFLEX®:

Insulated air ducts on the roof ensure that a feel-good atmosphere emerges in the recreation areas.

149 beds, 13.000 square meters area, 125 Million Euro total investment

The Ministry of Finance in Baden-Wuerttemberg invests into a future-oriented clinic

Task

In the the clinic for children and adolescents in Freiburg young people are supposed to recover in a holistic way as of 2023. For this not only medical components, but also especially psychological aspects were considered for a successful healing – supported by experts from different disciplines. Among others this means: A lot of living space for patients and the accompanying relatives, so that a longer hospital stay feels as pleasant as possible.

A significant factor for a „feel-good atmosphere“ is the supply of the recreation areas with fresh, well-temperated air. For this a light duct system is supposed to be installed, room-savingsly on the roof, which meets the hygienic requirements of a medical institution. The VENTAFLEX® air ducts fullfill these, as well as all other criteria for this discipline – thus the choice was quickly made.

In case the construction is going to be awarded Gold according to the certification system of the German society for sustainable construction: VENTAFLEX® is proud to be part of this.

VENTAFLEX® solution

1. 37 prefabricated components in the length of 2 and 3 m, 11 curves in 90° and 45° and a reduction as well as 10 pieces of 650 and 750 VENTAFLEX® air ducts were installed on the roof by VentaFix-clamp.
2. Due to strong temperature differences, which the duct system on the roof is exposed to, additional 6 compensators were installed for the length extension.
3. In order to connect the outside located ducts with the further ducts inside customized components for a roof duct were produced



Good view for the neighbors to the VENTAFLEX® air ducts: a clean look even on the roof



Advantages due to the VENTAFLEX® system

- +** Up to 70 % less weight – important for statics and handling and installation
- +** Certified hygiene conformity of the ducts according to VDI 6022
- +** Special weather resistance due to GRP-material
- +** Individual adaption to the conditions by customised production
- +** Reduction of the operating costs – up to 40 % less energy loss, up to 10 % less pressure loss and up to 99 % less leakage loss
- +** Tested technology – handling and installation are self explanatory, accordingly easy to delegate to local specialist companies

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