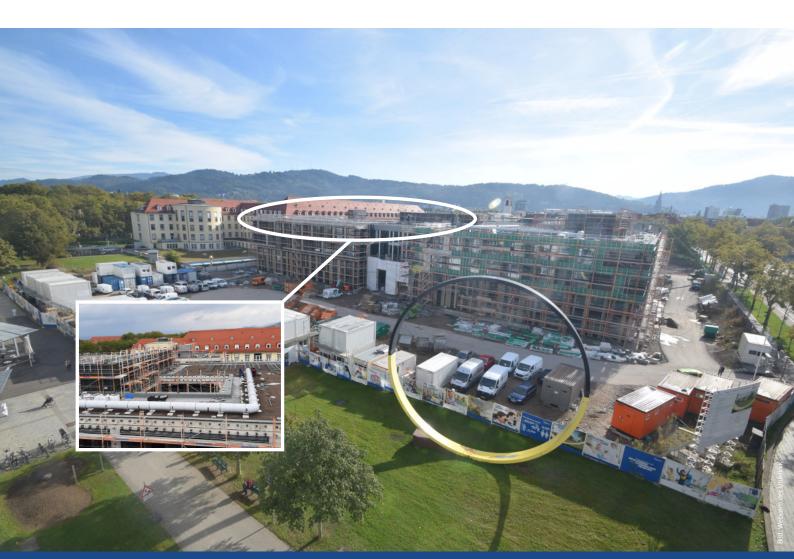
# PRACTICE 54

Application examples for planners of complex construction projects





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 psycological 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-temperatured air. For this a light duct system is supposed to be installed, room-savingly 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.
- 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

- 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