

PRACTICE REPORT 49

Application examples for planners of complex construction projects



New construction of a big daycare center in Hünefeld

Application area for VENTAFLEX®:
Underground air ducts supply 6 daycare groups
with fresh air

Construction start beginning of 2020, Operation start beginning of 2021: a reliable team player for consistent timing

VENTAFLEX® underground air ducts are a solid “basis” for every construction project

Task

The demand for childcare facilities is still great, that's why the city of Hünefeld invested € 4 Million to put the daycare centre St. Jakobus into operation after one year construction time.

In the two-storied building 6 daycare groups are expected to be accommodated from toddler to pre-school age. A good temperature control of the rooms is as important as the reliable supply of fresh air according to the needs of the children. The supply and exhaust air system was supposed to be installed space-savily underground. Especially for underground air ducts there are only a fistful of not very convincing solutions on the market – improvisation is often necessary or compromises are made regarding handling, hygiene, insulation and, finally, costs. This way the builder decided in favour of the system fulfilling its tasks the best, for VENTAFLEX® air ducts.

When finishing the work a leak test with the certified measurement technology of VENTAFLEX® was done – a service, which we like to recommend for underground installed air ducts.

VENTAFLEX® solution

1. 70 m straight pieces and curves were installed.
2. The entire supply parts are perfectly fit to the system and the constructional circumstances – from the mounting clamp VentaSnap to the wall duct from inside to outside.

Tightness thanks to VentaSnap clamp



Advantages due to the VENTAFLEX® system

- +** Ideal thermal insulation WLS 022 reduces condensate formation
- +** Saving of time at installation by planning and pre-installation
- +** Particular durability due to GRP-material
- +** Reduction of the operating costs – up to 40 % less energy loss, up to 10 % less pressure loss and up to 99 % less leakage loss
- +** Individual adaption to the conditions by special components
- +** Tested technology – handling and installation are self explanatory, accordingly easy to delegate to local specialist companies

The reinforcements for the foundation of the ventilation tower

