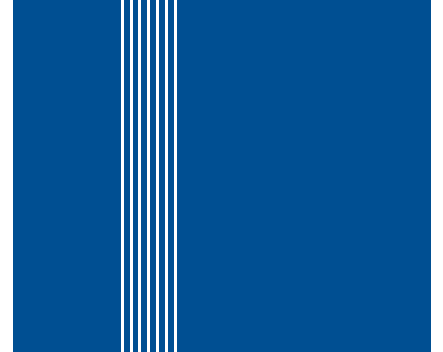


# PRACTICE REPORT 36

Application examples for planners of complex construction projects



**VENTAFLEX®**

More efficiency in air guidance



## Production hall with specific demands

You can find more project examples under [www.ventaflex.de](http://www.ventaflex.de)



## Air supply for 6.000 m<sup>2</sup> production area

Construction of a new hall for the production of functional components and packaging for the food industry



### Initial situation

Cleanrooms including corresponding material- and personell sluices were planned and installed for one of the leading companies of the plastics industry, which among others produces plastic parts for medical technology, laboratory supply and diagnostics as well as packaging for pharmaceuticals and food.

When planning one important aspect was the reliability, because every disturbance has a direct impact on the production process. This is why the rooms were equipped with cleanroom systems, which on the one hand keep temperature, air humidity and room pressure constant and on the other hand have a sufficient enough output cushion with which the required parameters can be complied with in case of failure.

### Task

For the production of sensitive goods, such as food and pharmaceuticals the reduction of airborne particles is indispensable. Hygiene has the highest priority. Additionally specific production conditions like constant temperature, air humidity or pressure are important, which ensure the product quality.

### VENTAFLEX® solution

1. Realisation with VENTAFLEX® air conductions with Ø 580 to 1270 mm
2. Use of a variety of custom made formed components and assemblies according to customer specification
3. Commissioning and delivery of all components according to drawing and construction sequence planning
4. Hygienic characteristics of the air conduction and light weight were the significant factors for choosing a VENTAFLEX® system

### Advantages due to the VENTAFLEX® system

- + Certified cleanroom compatibility**
- + Cost saving of material**
- + Different installation possibilities** due to variety of construction forms
- + Reduction of the operating costs**
  - up to 40 % less energy loss, up to 10 % less pressure loss
- + Less labour costs** – up to 60 % lower assembly times
- + Up to 70 % less weight** – important for statics and handling
- + Quick and individual adaption**