

# PRACTICE REPORT 22

Application examples for planners of complex construction projects



## Reconstruction of a church to a conference centre



**Application area for VENTAFLEX®:  
Optimum space-saving underground performance  
system for the ventilation of several conference rooms.**

## Eindhoven, Netherlands cross-border “in time”-project

3.500 m<sup>3</sup>/h volume flow fresh air is distributed to several conference rooms

### Task

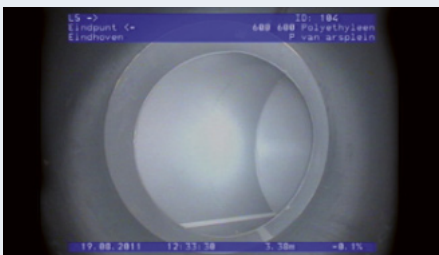
In the course of the reconstruction of a church to a conference centre in Eindhoven a new ventilation was necessary.

That is why it was decided to equip every conference room with a floor ventilation in accordance with air outlets.

This described task is extremely suited for the underground installation of VENTAFLEX® air ducts. However our competitiveness of more than 40 % in total was the decisive factor for the application as compared to KG duct types, as well as our short-term supply time, even for necessary special molded parts.

The installation of the system happened in record time: 2 fitters of the company Airpro undercut the time period demanded by the building contractor.

Following the installation the total duct system was checked by a camera passage and received the predicate excellent.



### Practice comparison VENTAFLEX® insulated spiral duct

Requirements for an insulated air guidance system:  
Length: 50 m  
Series: 630  
Insulation thickness: 5 cm  
 $\Delta t$ : 20 K

Therefore the following performance has to be applied:

VENTAFLEX® air duct: 900 W  
other duct: 1.430 W

### VENTAFLEX® solution

The used products:

VENTAFLEX® air ducts, insulated with the diameters 200 mm to 650 mm as well as a total of 80 moulded and custom made components.

Depending on the task the VENTAFLEX® wall collar or the VENTAFLEX® wall duct was used for the necessary wall ducts.

### Advantages due to the VENTAFLEX® system

- + Individual adaption to the conditions** by customised production
- + Saving of time at installation** by planning and pre-installation
- + Tested technology** – handling and installation are self explanatory, accordingly easy to delegate to local specialist companies
- + Up to 70 % less weight** – important for statics and handling and installation
- + Reduction of the operating costs** – up to 40 % less energy loss, up to 10 % less pressure loss and up to 99 % less leakage loss

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**VENTAFLEX®**  
More efficiency in air guidance