



AEROSEAL®

Case Study

MEZ-AEROSEAL

Vienna General Hospital

» Compliance with tightness class C. «



Vienna General Hospital

Location: Wien, Österreich

Date: Aug 19

MEZ-AEROSEAL Partner: Aero seal Austria GmbH

Executing company: -

Result: In the forefront, the renovation of the ventilation ducts with the Aero seal sealing system was discussed in detail with the hygiene team of the hospital and Vamed or Ortner. The individual approvals for the hospital area under the title ÖNorm H6020 - VDI 6022 - GMP were also discussed and finally approved for use. As the existing pipes were already several decades old, HBL Haidinger carried out an air duct cleaning before sealing. The inspection openings required for the cleaning were coordinated together so that they could also be used for the sealing. The Ortner company installed metal sheets on both sides of the existing lines (1x in level 8 and 1x in level 13). The waterproofing unit was installed in the area of the ventilation centre and connected to the ventilation ducts which were closed on all sides. After the waterproofing had been completed, the tightness class „C“ could be maintained for both lines. In order to demonstrate the possibilities or application limits of the Aero seal system, the supply air line was even sealed to tightness class „D“... this is practically impossible with conventional installation.



Smell



Noise



Energy efficiency



Air tightness



Indoor air quality

Description

In the neurosurgery area, the station on level 8 was completely rebuilt and the ventilation unit on level 13 replaced. The ventilation ducts in between were already several decades old and just met the requirements for tightness class „A“. Since the current regulations in the hospital sector require tightness class „C“, and replacing the shafts was not conceivable due to lack of space, the sealing was carried out using the Aero seal system. The lines were cleaned by HBL Haidinger before sealing..

Successful sealing

With our successful MEZ-AEROSEAL partner network we achieve great success again and again.

The change in leakages

Before sealing

- 66 l/s at 500 Pa

After sealing

- 5.1 l/s at 500 Pa

Reduction

- 92,20%



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