



AEROSEAL.

Case Study

MEZ-AEROSEAL

Berufsschule II Linz

» Sealing of the kitchen ventilation system to achieve tightness class C and thus comply with the requirements of ÖNorm H6030 and EN 16282 «

Berufsschule II Linz

Location: Linz, Austria

Date: Mai 20

MEZ-AEROSEAL Partner: Aeroseal Austria GmbH

Executing company: Aerovent GmbH

Result: In the new building of the boarding school of the vocational school II in Linz, a leak test was carried out after the raw installation of the kitchen ventilation, as the customer had demanded a minimum leak tightness of class C. For this purpose, Aerovent installed a sheet metal plate on all duct connections before the installation of the kitchen ventilation ceiling. In addition, the sealing device, which also serves for leakage measurement, was connected to the air duct network in the area of the ventilation center. The leakage measurement revealed considerable leaks, especially in the area of the exhaust air duct. Since these could not be reliably repaired or sealed with conventional measures due to the limited space in the riser shaft, the Aeroseal method was used. With this method, the leakages were reduced from almost 550 l/s to less than 10 l/s within a short time. By reducing the leakage rate - even in inaccessible areas - by 98.4%, it was possible to achieve tightness class D in both the supply and exhaust air lines. This guarantees minimum operating costs and high energy efficiency. In addition, the Aeroseal sealing system ensures that during operation no problems are caused by leaks that could not have been avoided using conventional methods.



Smell



Noise



Energy efficiency



Air tightness



Indoor air quality

Description

The vocational school II in Linz serves the training of different occupational areas such as panel and tiler, carpentry, carpentry technology, prefabricated house construction, potter, IT technology as well as IT informatics and includes two boarding schools in addition to the training centers. In the course of building a new boarding school, a new kitchen ventilation system was installed, which should at least meet the air tightness class C.

Successful sealing

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

The change in leakages

Before sealing

- 537,3 l/s at 200Pa

After sealing

- 8,6 l/s at 200Pa

Reduction

- 98,4%%



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