



 **aeroseal**®

JOHANNES KEPLER UNIVERSITY

Reduction of leakage,
increase in efficiency

Johannes Kepler University

Location: AT-4040 Linz / Austria

Date: Mai 17

MEZ-AEROSEAL Partner: Aero seal Austria GmbH

Result: The existing supply risers have been sealed using AEROSEAL®, overall target has been an increase of the air volume as well as a reduction of noise emissions. The systems are operated non-stop. All branches of the main shafts (risers) on all floor levels have been segregated and closed. Due to ongoing refurbishment works in the building that could be done without any problem. In the technical HVAC room the AEROSEAL® equipment has been connected directly onto the fire dampers. After the successful sealing refurbishment with AEROSEAL® the riser could be tested to a minimum of leakage class C, coming from A. To demonstrate to the building owner the possible performance of the system, a lot of the risers have been sealed down to class D (all mentioned leakage classes acc. EN1507). As a result of the sealing process there will be a future saving of leakages of about 4.000 m³/h, which would have been wasted otherwise 365 days a year by 24 h a day.



Smell



Noise



Energy efficiency



Air tightness



Indoor air quality

Description

Performing a general retrofit of the ventilation system in the TNF tower of Johannes Kepler University the existing supply risers should be upgraded to a state-of-the-art air tightness using AEROSEAL® technology.

Successful sealing

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

The change in leakages

Before sealing

- 1227 l/s at 300pa

After sealing

- 90 l/s at 300pa

Reduction

- 92,60%