



AEROSEAL®



Case Study

MEZ-AEROSEAL

Nursing home London

»» *Reduction of leaks to achieve at least
tightness class A according to DW143* ««

Nursing home London

Location: Great Britain

Date: 15. Nov 17

MEZ-AEROSEAL Partner: Hasman Ltd.

Executing company: Hasman Ltd.

Result: During the handover of a newly built four-storey nursing home in London, pressure tests in three of four air duct systems revealed such significant leaks that the required air tightness class A was not achieved. In addition, due to the leaks, the required air volumes in the rooms, corridors and hallways were not achieved and the sufficient removal of exhaust air from bathroom areas was also not guaranteed. Even an increase in fan speed was not sufficient to achieve the design values.

By using MEZ-AEROSEAL, the leakages of the supply and exhaust air system ducts installed behind solid ceilings could be reduced by an average of 93.8 %. Since the air volume at the outlet grilles after sealing was higher than the design values, the fan speeds could be reduced again and thus energy could be saved. All in all, the use of MEZ-AEROSEAL allowed to achieve tightness class B and in some cases even C, as well as to avoid replacement of the leaking piping and thus further delays in the construction process.



Smell



Noise



Energy efficiency



Air tightness



Indoor air quality

Description

Due to poorly executed installation work, the required airtightness class could not be achieved in a newly built nursing home in London, so that subsequent sealing was necessary.

Successful sealing

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

The change in leakages

Before sealing

- 119,0 l/s

After sealing

- 7,4 l/s

Reduction

- 93,80%



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