



Engineering Office
Michael Langer

Consulting engineer wood technology
Freelance surveyor
Building energy consultant,
Chamber of Crafts
Blower-Door Test

Certificate

Thermobox 150

Manufacturer Naber GmbH Enschedestraße 24 in 48529 Nordhorn

Based on the air tightness measurement in a laboratory-like test situation with a defined building envelope* (box with 22m³ volume) with a built-in wall conduct for an extractor hood.

Compared to other wall conducts tested, the “Thermobox” is significantly more airtight. Both in the positive pressure measurement up to +60 Pa and in the negative pressure measurement at -60 Pa, the wall conduct “Thermobox” was the only one tested that closed airtight.

This high quality in terms of airtightness virtually reduces heat losses via the non-operating cooker hood to zero in the above-mentioned pressure range compared with the other wall conducts tested.

Even in the negative pressure measurement, leaks were detected by the competitors.

In the positive pressure test, the volume flows measured were between 100% and 400% above those of the “Thermobox”. Since there is a direct correlation between the volume of air exchanged and the thermal energy it contains, it can be assumed that the heat losses are in the same ratio.

The wall conduct “Thermobox” thus offers an effective contribution to energy saving.

Issued:

Engineering Office
Michael Langer
Liststiege 4
48529 Nordhorn

Nordhorn, 10.12.2015



Ingenieurbüro
Michael Langer
Beratender Ingenieur Holztechnik
Energie Sachverständiger
Geprüfter Energieeffizienzberater HWK
Blower-Door Test

* The measures carried out are based on a test model without built-in extractor fan which was made especially for testing the tightness of wall conducts.