

Press Release

New study

Fantastic results for wall conducts from Naber

Wall conducts and exhaust air flaps for extractor systems from Naber are perfectly suited for efficiency and passive houses. This is demonstrated by an independent study. The result is convenient exhaust air solutions with only minimal heat loss.

In highly insulated and almost airtight buildings, every detail counts. Even relatively small leaks increase the energy consumption and reduce the living comfort. Poorly insulated wall conducts for extractor systems are a frequent source of cold draughts. A tight wall conduct that works reliably for many years prevents such energy leaks.

The wall conducts flow Star GTS, BIXO and the THERMOBOX from Naber are the perfect solutions for these requirements. This is the result of a state-sponsored study carried out on behalf of the Federal Institute for Research on Building, Urban Affairs and Spatial Development (BBSR).

Top performance for every construction type

Both in a strong breeze and in normal wind conditions, Naber wall conducts prevent cold air from entering the living space. This is important with regard to energy saving and climate protection, because otherwise there is considerable heat loss almost around the clock, except when the extractor fan is in operation.

Moreover, the very low leakage rates, which provide information about the tightness, are achieved by the trio regardless of the construction type. Flow Star GTS is equipped with a stable metal spring that opens and closes the wall conduct as soon as the extractor fan builds up air pressure. The easily retrofittable THERMOBOX has three consecutive flaps that are held securely in the closed position by small magnets. A thermally insulating cushion of air forms between these flaps. The BIXO, equipped with an electric motor and a twistable membrane in Twister-Tec technology, stands out as the best of the devices tested and remains particularly tight even when exposed to strong wind pressure.

Significant energy savings thanks to Naber technology

Calculated on the basis of the additional energy requirement per square metre of living space for a typical apartment size of 60 square meters, the study shows that Naber's wall conducts are so tight that they only account for 0.3 kilowatt hours per square metre and year (kWh/m²a) or less. The devices from brand-name manufacturers and from the DIY market segment that were tested alongside provide a much poorer seal. If the users rely solely on the backflow flap of the extractor hood or if only a ventilation grille is installed, with an additional energy loss ranging from two to more than eight kWh/m²a, even in the flat in a passive house which served as a reference, the costs really mount up. In old buildings with inefficient heating systems, the heat loss again increases significantly - an important topic when it comes to energy-efficient renovation.

No loss of comfort due to exhaust air

Together with other findings of the study, among other things on capture rates of extractor fans, sensor-controlled power regulation and the influence of different systems on subsequent air flow, an interesting picture emerges: if an efficient extractor hood with good capture of the cooking fumes is selected, which conveys the air to the outside via aerodynamically optimal ducts such as the innovative COMPAIR PRIME flow® and a wall conduct from Naber, no or only minimal restrictions on living comfort in a passive house are to be expected, even in exhaust air mode. This also applies to smaller flats, where the extraction of warm room air contaminated with odours, pollutants and moisture has a greater impact on the energy balance. If automatic power controls are used for the extractor fan, this impact is further reduced.

The study “Investigation of extractor systems in residential kitchens with regard to energetic, fluidic and hygienic aspects” was commissioned by the Federal Institute for Research on Building, Urban Affairs and Spatial Development (BBSR) and financed by the Federal Ministry for Housing, Urban Development and Building from the funds of the innovation programme Zukunft Bau. The Passive House Institute in Darmstadt, the ITG Institute for Building Systems Engineering Research and Application and the Institute for Wood Technology, both in Dresden, as well as the company Naber from Nordhorn were involved.
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Naber GmbH

A dynamically growing company within the kitchen accessories sector. More than 3,500 accessories items belong to the product range. Numerous internationally recognised design awards underline the innovative power of the family-owned business which is successful for decades.



Management

Hans-Joachim Naber is the tireless driving force behind the development and realisation of innovative products.

Ingrid Naber unerringly controls the areas human resources, organisation and finance.

Lasse Naber shapes the future direction of the company with drive and vitality.

Press release and photos for standard use. For further information please contact:

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