

Summary

OPERATION OF FIRE PLACE, EXHAUST HOOD AND DWELLING VENTILATION SYSTEM

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1 Requirements

The fundamental requirements, already presented at the 1st European BlowerDoor Symposium, did not change, respectively practice has brought up some points. Still there is no standardised qualification profile on the part of the district chimney sweeper. That is based finally on the fact that the draft standard to the control device did not come beyond the objection phase. Thus the control device is still an unregulated electronic component and requires a general approval by German Institut for Structural Engineering (Deutsches Institut für Bautechnik). No applicant attained this permission until today. That is probably because of the fact, that one could not agree safety-related secured upon the placement of the sensing element. According to the German building laws thereby a control device cannot be used.

2 Examples for control devices

Application type with standard prices are pointed out at an excerpt of control devices present in the market.

3 The adapted recommendations of the VfW

In principle one should not assume that room air independent fire places do not require any measures. Here it helps, to look at the certificat of acceptance in time, since restrictions for the common operation can be made there!

As soon as the constellation and the execution of fire place (regardless of which kind), exhaust hood and dwelling ventilation system are certain, the coordination for the equipment (e.g. external combustion air supply) and execution (which kind of control device) should take place with the responsible district chimney sweep master.

Already at this time it is important to define the positioning of the measuring points of the control device with the district chimney sweep master, if he demands the use of a control device. Before orders are placed!

4 Perspective

The VfW has again taken up the contact to the central guild federation of the chimney sweepers, to find more practicable applications, up to clarifying of the legal situation.

The following points are suggested for clarifying:

- In how far the result of a blowerdoor-test is to be considered, and/or how a building is set without this test?

EnEV

without dwelling ventilation = 3/h

with dwelling ventilation = 1/h

with blowerdoor test = measured value

passivhouse institut < 1/h

E DIN 1946-6 and other standards for infiltration?

In other words, can an airtight house make the combustion air available at all?

- Does the positioning of fire place and dwellings ventilation system in different spaces or floors play a role?
- How influences of wind gusts on the combustion air opening in the external wall and the chimney end are to be considered?

Burning start-up procedures such as buildup of thermal lift are certainly also to be considered.

The responsibility for the monitoring solution is on the side of the fire place. Only there is information about the construction and the own admission restrictions / operation requirements and their acceptance via the chimney sweeper!