

Services of Fire test laboratory

06/2024

HFM has been accredited by the supervising authority (Bay 06) and has been notified to the EU Commission as a testing laboratory, inspection and certification body (No. 0797).

We are accredited by DAkkS as a testing laboratory according to EN ISO/IEC 17025 (No. D-PL 14063-04-00) and as a certification body according to EN ISO/IEC 17065 (No. D-ZE 14063-0100).

In the fire test laboratories, we perform most of the tests according to DIN 4102 and EN standards on building materials. Any building products are covered, not only wood.

We offer:

Building products testing acc. to DIN 4102

- any building products except floorings and roofings

The following test devices are used:

- 750°-furnace according to DIN 4102-1
- Brandschacht acc. to DIN 4102-15, -16
- small furnace acc. to DIN 4102-8 for special tests on samples of dimensions 50 x 50 cm
- smoke density testing during smoldering combustion
- smoke density testing during flame impingement
- small burner (single-flame source test)
- bomb calorimeter: calorimetric values according to DIN 51900

Building products testing according to EN 13501-1

- any building products accept floorings and roofings

Following test devices are used:

- SBI furnace according to EN 13823
- 750° furnace according to EN ISO 1182
- small burner according to EN ISO 11925-2
- calorimeter: calorimetric values according to EN ISO 1716
- muffle furnace for determination of organic content according to EN 13820
- determination of a building products propensity to undergo continuous smouldering according to EN 16733

Classification of building products

- DIN 4102-1, -2 and -5
- EN 13501-1 and -2

Inspection and Certification



Expert opinions, e.g.

- statements regarding deviations from general technical usabilities
- for approvals in the individual case

Research, e.g.

- smouldering of building products
- melting point of mineral wool
- charring rates of wood-based products and intumescent products