

Services of Fire testing laboratory

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

We are accredited by DAkkS as testing laboratory according to EN ISO/IEC 17025 (No. D-PL 14063-04-00) and as certification body according to EN ISO/IEC 17065 (No. D-ZE 14063-01-00)

In the fire testing laboratory we perform most of the tests according to DIN 4102 and EN-standards on building materials and building elements. So there will be covered any building products and materials, not only wood.

We offer:

Building products testing acc. to DIN 4102:

- any building products accept floorings and roofings
- in case of fire intumescent building products
- melting point determination according to DIN 4102-17
- charring rate of building products

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 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 i.a. 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 and building elements:

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

Fire resistance test according to DIN 4102, EN 1363, 1364 and 1634:

- non-load bearing internal walls (e.g. partition walls such as walls made of gypsum boards)
- doors, glazings
- inlays for fire doors (DIN 18089)
- small furnace according to DIN 4102-8 for special tests on samples of dimensions 50 x 50 cm

Inspection and Certification



Expert opinions, e.g.

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

Researches, e.g.

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