

Heat Dissipation of Floors according to DIN 52 614

to determine the heat dissipation levels I - III:

- I: especially foot warm
- II: sufficiently foot warm
- III: not sufficiently foot warm

Test facility

The measurement method is applicable to homogeneous and approximately homogeneous as well as layered test specimens (floor structures and coverings).

Test procedure

The foot of the heat test specimen operated by constant temperature is placed on the floor covering or structure to be tested and the film heat flow meter. Due to the flexible rubber base the foot perfectly adjusts even to surfaces with slight unevenness. The heat flow through the test specimen is recorded by the film heat flow meter and added by the calorimeter over a period of one and ten minutes. It is also possible to carry out testing over longer or shorter periods, if desired. The test equipment is transportable and therefore it is suited for tests outside of the laboratory.

- dimensions of the test specimen:
500 mm x 500 mm
- floor coverings made of PVC, cork, parquet, linoleum, textile fibers, tiles, industrial floor coverings, polyester resin sheets etc.

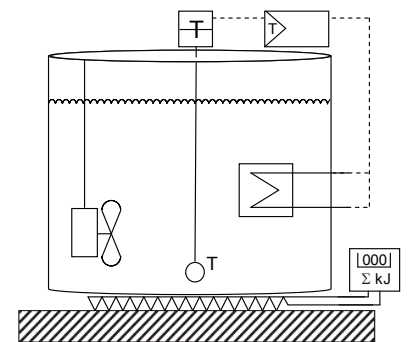


Figure: „Artificial Foot “ with heat flow meter and calorimeter.

Fraunhofer Institute for Building Physics

Nobelstrasse 12
 70569 Stuttgart
 Germany

Department of Hygrothermics
 Test laboratories of thermal characteristics
www.ibp.fraunhofer.de/pruefstellen

Dipl.-Ing. (FH) Andreas Zegowitz
 Phone +49(0)711/970-3333
 Fax +49(0)711/970-3340
andreas.zegowitz@ibp.fraunhofer.de

Test Results

Test report including classification in standardized classes:

heat dissipation level	heat dissipation	
	W_1	W_{10}
	kJ/m^2	kJ/m^2
I	38	190
II	38 to 50	190 to 290
III	more than 50	more than 290