

09/17-F23

## Quality and Conformity Marks

- Conformity Mark (CE mark)  
European Notified Body  
Code number: 0766



- Conformity Mark (Ü-Mark)  
DIBt Certified Body  
Code Number: SAC 03



- EPH quality mark „Surveillance of FPC“ within external surveillance acc. to system 2+



- EPH Quality Mark "Manufacturing controlled · Quality proven" with external surveillance acc. to system 1 and 1+



## Contact persons

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Surveillance

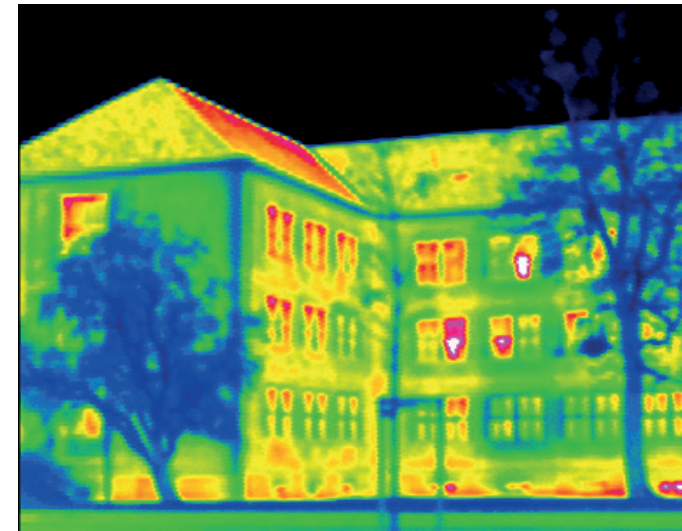
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Fire testing

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## Thermal insulation products



Determination of physical parameters

Approval and Surveillance

Certification and Quality Control

Testing of Useability

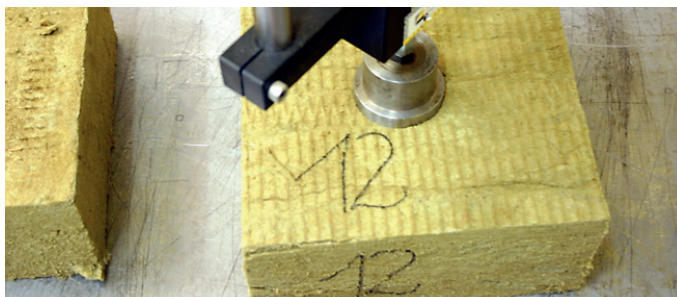
## Technical competence and equipment

The test laboratories of EPH are accredited according to EN ISO/IEC 17025. They possess modern test equipment to determine thermal, hygric, mechanical and physical properties.

Climate chambers provide simulation of different environmental conditions, with constant or differential climates or by climate cycles. All measuring and testing devices are object of both internal and recognized external surveillance bodies.

## Accreditations

- European Construction Products Regulation (CPR)  
The Entwicklungs- und Prueflabor Holztechnologie GmbH is acknowledged as testing and certification body (Notified Body, no. 0766) for thermal insulation material according to EN 13162 to 13171 (CE marking).
- Building regulations of the federal state (LBO)  
The Entwicklungs- und Prueflabor Holztechnologie GmbH is acknowledged as surveillance and certification body (ref. no. SAC 03) for products with a general construction products approval (only Germany), according to part II a of the register of testing, surveillance and certification bodies according to LBO, for insulation products made out of wood wool, expanded cork, and wood fibers.
- Accreditation of test laboratories  
The laboratories for physical, chemical and biological testing of the Entwicklungs- und Prueflabor Holztechnologie GmbH are accredited by Deutsche Akkreditierungsstelle (DAkKS) according to EN ISO/IEC 17025:2005.



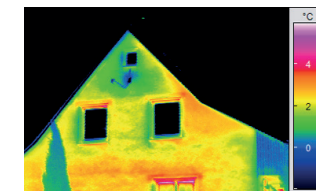
Test of behaviour under point load

## Testing of thermal insulation products

Thermal insulation	Thermal conductivity Thermal flow resistance	DIN 52612 EN 12939 EN 12664 EN 12667
Geometry	Length, width, thickness Squareness Flatness Linear dimensions Dimensional stability Thickness for floating floor insulation	EN 822, EN 823 EN 824 EN 825 EN 12085 EN 1603, EN 1604 EN 12431
Mechanical properties	Apparent density Bending behaviour Shear behavior Compression behavior Compressive creep Deformation under specific compressive load and temperature Tensile strength Behaviour under point load	EN 1602 EN 12089 EN 12090 EN 826 EN 1606  EN 1605 EN 1607, EN 1608 EN 12430
Reaction to moisture	Equilibrium moisture content Water absorption  Water vapour transmission Freeze-thaw resistance	EN 12429 EN 1609 EN 12087 EN 12088 EN 12086 EN 12091
Reaction to fire	Ignitability Non-combustibility test Gross combustion heat (calorific value)	EN ISO 11925-2 EN ISO 1182 EN ISO 1716
Biological resistance	Mould resistance	EN 60068-2-10 ÖNORM 6010 CUAP N 47 IHD-VA-20-25 EN 13820
Chemistry	Organic content	EN 13820

## Additional services

- Investigation of built-in quality
- Determination of air-tightness of building (blower door technology)
- Infrared thermography
- Emissions, e.g. formaldehyde, VOC
- Product testing according to German AgBB scheme
- Test of loose-fill insulation materials
- Organising of reaction to fire and acoustic tests



Infrared thermography of a house end



Specimen preparation (loose insulations)



Double-plate test device to determine thermal resistance