Accreditations/Quality certificates

- Entwicklungs- und Prüflabor Holztechnologie (EPH) with the PÜZ body for building parts of glass intended to protect from falling (being applied for) and European Notified Body for Building Products (Nr. 0766) (also for windows, doors and façades).

- Test of performance characteristics for CE marking

- EPH-Quality mark „Quality proven" on test certificates

- Laboratories for physical, chemical and biological testing accredited acc. to DIN EN ISO/IEC 17025

  DAkkS Deutsche Akkreditierungsstelle D-PL-11054-01-00 D-ZE-11054-01-00

- Product Certification Body acc. to DIN EN ISO/IEC 17065

- Test Laboratory accredited by DIN CERTCO for burglar resistance

  DIN CERTCO Anerkanntes Prüflaboratorium Reg. Nr.: PL009

Professional Competence and Equipment

The equipment of the laboratory for windows and doors is suitable to test usability, safety and burglar resistance, thermal insulation, hygrothermal characteristics as well as characteristics of hygienic living conditions for windows and doors.

Based on the professional competence of it's staff the tests laboratory provides a complete evaluation of quality characteristics of buildings elements and the solution of various technical questions concerning windows construction, wood preservation and surface treatment.

Contact persons

Lutz Neugebauer
+49 351 4662 302
lutz.neugebauer@eph-dresden.de

Deputy Head of Laboratory
CE-Performance · Useability

Dipl.-Ing.
Heiko Hofmann
+49 351 4662 5103
heiko.hofmann@eph-dresden.de

Thermal Protection · Management Systems

Dipl.-Ing. (BA)
André Zaenker
+49 351 4662 404
andre.zaenker@eph-dresden.de

Burglar Resistance · Usability

B.Eng.
Matthias Obst
+49 351 4662 400
matthias.obst@ihd-dresden.de

Burglar Resistance

Entwicklungs- und Prueflabor Holztechnologie GmbH
Zellescher Weg 24 · 01217 Dresden · Germany
+49 351 4662 0 +49 351 4662 211
info@eph-dresden.com · www.eph-dresden.de

Testing of Windows and Doors

Testing of usability, safety and thermal insulation characteristics of windows and doors

ilac-MRA

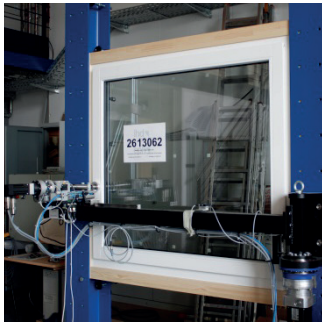
DAkkS Deutsche Akkreditierungsstelle D-PL-11054-01-00

DAkkS Deutsche Akkreditierungsstelle D-ZE-11054-01-00

Usability

DIN EN 14351-1:2006+A2:2016

- DIN EN 1026
  Air permeability
- DIN EN 1027
  Watertightness
- DIN EN 12211
  Resistance to wind load
- DIN EN 14608/DIN EN 947
  Resistance to vertical load
- DIN EN 14609/DIN EN 948
  Resistance to static distortion
- DIN EN 13049/DIN EN 949
  Impact resistance
- DIN EN 1191
  Resistance to repeated opening an closing
- DIN EN 12046-1/DIN EN 12046 -2
  Operating forces
- DIN EN 950
  Resistance to hard body impact
- DIN 18008-4
  Additional requirements for barrier glazing



Burglar Resistance and Safety Characteristics

Testing of windows, doors, installation in the building shell and special designs for burglar resistance acc. to:

- DIN EN 1627
  Requirements and classification
- DIN EN 1628
  Resistance under static loading
- DIN EN 1629
  Resistance under dynamic loading
- DIN EN 1630
  Resistance to manual burglary attempts

Thermal Insulation

Determination of thermal insulation characteristics of windows, doors and frames according to:

- DIN EN ISO 10077-1
  Calculation of thermal transmittance - General
- DIN EN ISO 10077-2
  Numerical method for frames
  - Thermal bridges
  - Condensation
  - Isotherms
- DIN EN ISO 12567-1 / DIN EN ISO 12567-2
  Determination by hot-box method - complete windows and roof windows
- DIN EN ISO 12412-2
  Determination by hot-box method - frames

Hygrothermal properties

- DIN EN 1121
  Behaviour between two different climates
- DIN EN 1294
  Behaviour in successive uniform climates
- DIN EN 13420
  Windows – different climates – test methods