

TESTING OF WINDOWS AND DOORS



USABILITY
BURGLAR RESISTANCE
THERMAL INSULATION

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



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

- Test Laboratory accredited by DIN CERTCO for burglar resistance



- Test Laboratory accredited by the RAL Quality Association for Interior Doors in accordance with RAL-GZ 426/1

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 its 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.

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Burglar Resistance · Usability

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CE-Performance · Usability



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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 and 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