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Seminars

PfB offers technical lectures and seminars with in-house speakers and external specialists. The range of courses is supplemented by the high level of practical relevance and topic-related demonstrations on test rigs. The number of participants – 20 to 30 – allows for a lively exchange of information and plenty of opportunity for discussion.

- **Basic training: Mechanical Installer**
- **Further training seminar: Mechanical Installer**
- **Building component days at PfB**
- **Advanced seminar: Doors**

For more information on the individual seminars please visit our website www.pfb-rosenheim.de/seminare

Publications

Das Türenbuch: Fachwissen für Planung und Konstruktion (The Door Book: Expert knowledge for design and construction) by Rüdiger Müller is the standard reference book for requirements, planning, construction and design principles of doors. Sound and thermal insulation, burglar resistance, fire safety and smoke control are discussed in detail. This reference book is designed for architects, owners, assessors, authorities and joiners as well as for the door industry and craftsmen, and can be purchased directly from PfB.

The PfB also publishes »Leitfaden: Empfehlungen für Einsatz und Ausschreibung von Fenstern und Außentüren nach der Produktnorm DIN EN 14351-1 und DIN 18055«, which gives recommendations for the use and specification of windows and external pedestrian doorsets in accordance with the product standards DIN EN 14351-1 and DIN 18055. This is available free of charge at www.pfb-rosenheim.de

Expert opinions

PfB also shares its expert knowledge in the form of expert opinions. Rüdiger Müller is an expert assessor for window and door technology and mechanical burglar resistance certified and sworn by the Chamber of Industry and Commerce of Munich and Upper Bavaria.

Cooperations

PfB supports the exchange of knowledge with research and educational institutions. One outcome of this is collaboration in testing for e.g. fire safety, enabling the smooth implementation of comprehensive and complex testing projects.

- **HFM Holzforschung München - TU München**
- **FIW Forschungsinstitut für Wärmeschutz e.V. München**
- **VfS – Verband für Sicherheitstechnik e.V.**
- **Fraunhofer-Institut für Bauphysik IBP**
- **DMT Prüfstelle für Brandschutz**



Accreditations

PfB has been approved as an accredited and notified testing and certification body for a wide range of tests.

- **Notified Body No. 1644**
- **Approved testing body to LBO BAY 33 (Bavarian Building Code)**
- **DAkKS Deutsche Akkreditierungsstelle**
- **RAL Gütegemeinschaft Innentüren aus Holz und Holzwerkstoffen e.V.**
- **RAL Gütegemeinschaft Kunststoff-Fensterprofilsysteme e.V.**
- **DIN Certco**
- **VKF Vereinigung Kantonalen Feuerversicherungen**



face-to-face | experienced | agile



Prüfzentrum für Bauelemente

Prüfzentrum für Bauelemente (PfB) is a leading competence centre for testing building components such as doors, windows, curtain walling / façades, grilles, roller shutters and associated hardware.

In addition to tests for safety and security, climate / weather, energy and suitability of use, the PfB team will gladly take on the development of customised test rigs for special tests. PfB is approved as an accredited and notified testing and certification body.

Rüdiger Müller laid the foundation for today's testing centre back in 1983. Despite continuous expansion, PfB has remained true to its guiding principle of providing tailored and cost-efficient support for test projects. PfB benefits from both the many years of experience and expertise of its employees and a comprehensive infrastructure.

The test rigs available include a 6 × 8 m façade test rig for large building components; 6 × 6 m and 6 × 9 m test rigs for smoke control tests; another 6 × 9 m test rig for conducting air permeability, watertightness and wind resistance tests; and two 4 × 4 m test rigs. In addition to the wide range of testing options, PfBcert also undertakes inspections in the context of third-party control and certification.

PfB shares its expert knowledge by publishing technical literature and holding seminars and through the provision of expert opinions. It contributes actively to the current technical discourse in cooperation with research and educational institutions. Finally, through cooperation agreements with other institutes, PfB is able to provide competent and comprehensive support for test projects and deliver these cost effectively.

Certification

As an accredited and notified certification body PfBcert offers a wide range of product certification, both for voluntary and mandatory certification specified by national building control authorities.

- ZE1** Burglar resistant construction products and retrofit products to DIN EN 1627, DIN 18104-1, DIN 18104-2, (DIN V ENV 1627), (DIN 18106)
- ZE2** Locks to DIN EN 12209 (for use on fire doors and /or smoke control doors)
- ZE3** Lever handles and security furniture to EN 1906
- ZE4** External pedestrian doorsets with "Ability to release" to EN 14351-1
- ZE5** Emergency exit devices to EN 179 and Panic exit devices to EN 1125
- ZE6** Windows and external pedestrian doorsets to EN 14351-1
- ZE7** Pedestrian doorsets, industrial / commercial / garage doors and openable windows with fire resistance and /or smoke control characteristics to EN 16034
- ZE8** Accessibility to DIN 18040-1, DIN 18040-2, DIN 18040-3
- ZE9** Internal pedestrian doorsets with ability to release to E DIN EN 14351-1:2014-06, prEN 14351-2

The mandatory initial tests and associated third-party inspections are conducted by qualified and trained PfB employees. PfB is therefore able to offer its customers a complete package comprising initial type test, audits / monitoring and certification. Fire testing of large-sized components is covered by the cooperation partner DMT. PfB is able to provide fast and cost-effective fire testing for small components, e.g. locks, in small furnaces.

Tests

Safety and security

- Safety barriers
- Break-out resistance
- Bullet resistance
- Anti-bandit tests
- Fall-through prevention
- Throw-through resistance
- Burglar resistance
- Ability to release
- Impact resistance
- Load-bearing capacity of safety devices

Climate / weather

- Behaviour between different climates
- Wetness and splash water test
- Flood resistance
- Flood protection
- Air permeability
- Watertightness
- Snow load
- Condensation simulation
- Temperature resistance
- Climate cycles
- Resistance to wind load

Energy

- Fire safety
- Smoke control
- Sound insulation
- Thermal insulation

Fitness for use

- Operating forces
- Mechanical durability
- Durability
- Dead loads and horizontal loads
- Corrosion resistance
- Mechanical strength
- Safety of use

Special items

- Ball impact resistance
- Break-out prevention
- Blast protection
- High pressure safety
- Hurricane test
- Explosion resistance
- Icing simulation

