

Testing of façades and balcony balustrades

Facades are the outstanding advertisement of a building. Different systems and materials provide various possibilities for the design of such. Beyond the aesthetic properties, facades fulfil much more important functions to protect the building from weather influences.

Institut für Holztechnologie Dresden (IHD) and Entwicklungs- und Prüflabor Holztechnologie Dresden (EPH) have a long tradition in research, development and testing of facades from wood, wood-based panels and high pressure laminates (HPL). The spectrum ranges from development-accompanying work via testing for verification of usability though to damage analysis. The accredited test laboratory guarantees expertise and performance of standard-compliant tests.

Testing of façade systems

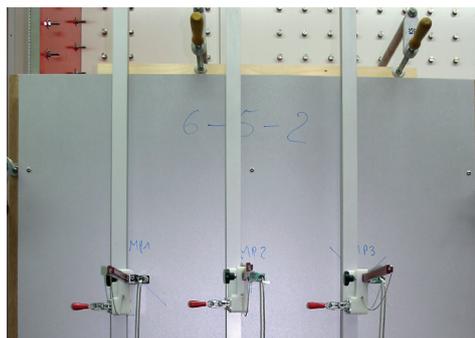
- Behavior under static and dynamic loads
- Stress-bearing capacity of the attachment system
- Climate testing for determination of dimensional stability and durability
- Weathering tests

Testing of façade elements

- Mechanical testing on panel- and board material
- Pull tests on screws and other attachment materials
- Performance of climate cycles and assessment of material changes
- Biological durability
- Physical testing of for thermal- and moisture protection
- Coating quality (e.g. UV-resistance, chemical resistance)
- Microscopic surface analysis

Testing of balcony balustrades

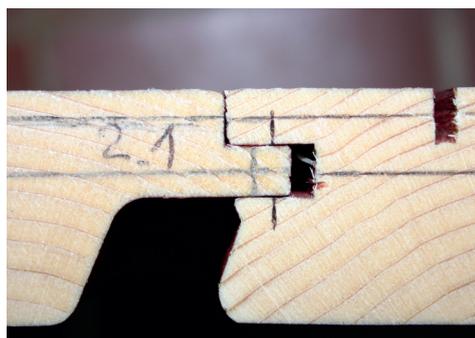
- Testing acc. to ETB-guideline "Bauteile, die gegen Absturz sichern"
- Hard and soft impact
- Testing of attachment material



Façade panel at wind load test



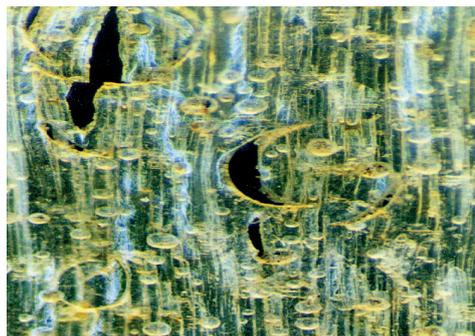
Test façade with multi-layer panels



Testing of dimensional stability on tongue and groove formwork



Testing of a balcony balustrade



Micrograph of a damage pattern caused by hail

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