BAM
Bundesanstalt für Materialforschung und -prüfung

Reference procedure

Accelerated Field Simulator (AFS)

Proof of competence

ISO/IEC 17025 accreditation

Testing quantities and objects

- Qualitative assessment of the strength of biocide-treated wood stakes: dimensions of stakes: 20 mm × 20 mm × 400 mm (longitudinal)
- On customer request also non-destructive measurement of the flexural modulus of elasticity to describe changes in wood strength over time
- Testing with reference and virulence test specimens
- Multi-year test in soil basins

Testing range

- qualitative method without measurand
- determination of the validity of the results via reference and virulence test samples

Expanded measurement uncertainty ($k = 2$)

Uncertainty significantly smaller than the scatter of results that occurs between individual test specimens of a test series (10 test specimens each).

Field of application

Biology, Material in soil contact

References

- DIN 52186:1978-06, Testing of wood; bending test, https://dx.doi.org/10.31030/1260171.
- EN 252:1989-06, Field test method for determining the relative protective effectiveness of a wood preservative in ground contact, https://www.beuth.de/de/norm/din-en-252/1540215.
- I. Stephan, S. Göller, D. Rudolph, Improvement of monitoring the effects of soil organisms on wood in fungus cellar tests *Int. Research Group on Wood Preservation, Stockholm, Sweden* **1996**, Doc. No. IRG/WP96-20093, DOI: n/a.
- M. Grinda, S. Göller, Some experiences with stake tests at BAM test fields and in the BAM fungus cellar. Part 1: Comparison of results of visual assessments and determinations of static moduli of elasticity (MOE) *Int. Research Group on Wood Preservation, Stockholm, Sweden* **2005**, Doc. No. IRG/WP 05-20319, DOI: n/a.

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