

Testing task and Services of the Biological Test Laboratory

Test methods, on which the biological laboratory is accredited according to DIN EN ISO/IEC 17025:2018:

Tests with microorganism

Testing	Explanation of the method
DIN EN 113-1 (2021-02 Berichtigung 1 2021-07)	Durability of wood and wood-based products – Test method against wood destroying Basidiomycetes – Part 1: Assessment of biocidal efficacy of wood preservatives
DIN V ENV 807 (2001-12)	Wood preservatives – Determination of the effectiveness against soft rotting micro-fungi and other soil inhabiting micro-organisms
DIN EN 113-3 (2023-06) (Formerly DIN V ENV 12038)	Durability of wood and wood-based products – Test method against wood destroying basidiomycetes – Part 3: Assessment of durability of wood-based panels
DIN EN 252 (2015-01)	Field test method for determining the relative protective effectiveness of a wood preservative in ground contact
DIN CEN/TS 15082 (2005-10)	Wood preservatives – Determination of the preventive effectiveness against sapstain fungi and mould fungi on freshly sawn timber – Field test
AWPA E24 (2016)	Laboratory Method for Evaluating the Mold Resistance of Wood-Based Materials: Mold Chamber Test

Artificial ageing test

Testing	Explanation of the method
DIN EN 84 (2020-10)	Durability of wood and wood-based products – Accelerated ageing of treated wood prior to biological testing – Leaching procedure
DIN EN 73 (2020-10)	Durability of wood and wood-based products – Accelerated ageing of treated wood prior to biological testing – Evaporative ageing procedure

Tests with insects/termites

Testing	Explanation of the method
DIN EN 117 (2013-01)	Wood preservatives – Determination of toxic values against Reticulitermes species (European termites) (Laboratory method)
DIN EN 118 (2014-03)	Wood preservatives – Determination of preventive action against Reticulitermes species (European termites) (Laboratory method)
AWPA E1 (2016)	Laboratory Method for Evaluation the Termite Resistance of Wood-Based Materials: Choice and No-Choice Tests

In-house test methods and further standards (non-accredited testing):

Testing	Explanation of the method
Screening EN 113	In-house method for determination of the effectiveness of substances or formulations against Basidiomycetes (Laboratory testing) – limit value assessment
Screening II	In-house method for examination and visualization of the penetration depth of active ingredients
Penetration-screening	In-house method – fast penetration test to verify the limit value for Screening 113 and DIN EN 113-1 with/without DIN EN 84
AWPA E10 (2016)	Laboratory Method for Evaluation the Decay Resistance of Wood-Based Materials against pure basidiomycete Cultures: Soil/Block Test
DIN EN 152 (2012-02)	Wood preservatives – Determination of the protective effectiveness of a preservative treatment against blue stain in wood in service – Laboratory method
DIN EN 113-2 (2021-02)	Durability of wood and wood-based products – Test method against wood destroying Basidiomycetes – Part 2: Assessment of inherent or enhanced durability
DIN EN 12037 (2023-02)	Wood preservatives – Field test method for determining the relative protective effectiveness of a wood preservative exposed out of ground contact – Horizontal lap-joint method
Aquarium-Mini-Stack (AMS)	In-house method for determination of the effectiveness or resistance of materials against mould and/or blue stain; preliminary test for DIN CEN/TS 15082
Tub Mould Testing	In-house method for determination of the effectiveness or resistance of materials against mould and/or blue stain
MHK Ascomyceten	In-house method for determination of the minimum inhibitory concentration (MHK) of preservative treatments against Ascomyceten (A-fungi)
MHK Basidiomyceten	In-house method for determination of the minimum inhibitory concentration (MHK) of preservative treatments against Basidiomyceten (B-fungi)
MHK liquid Systems	In-house method for determination of the minimum inhibitory concentration of formulations or products against Ascomyceten in liquid systems
Storage rot fungi	In-house method for determination of the effectiveness of formulations or products against storage rot (<i>Stereum</i> species) in laboratory testing
Mould – Wood stack (small)	In-house method for determination of the mould effectiveness

Further Services of the Biological Test Laboratory:

- Assessment of the type of wood degradation caused by fungi - fungi determination (e. g. brown rot, white rot, soft rot)
- Determination of types of wood (European timbers)
- Evaluation of discoloration at wood samples (e. g. mould, blue stain, soiling)