

## 1 Biological Testing \* (DD)

Testing in the areas of effectiveness of wood preservatives against wood-destroying and wood-discolouring fungi; the effectiveness of biocides (including in-can preservers and film protection) against microorganisms; the resistance of materials to colonisation and attack from microorganisms; laboratory tests and field studies including weathering via outdoor exposure, evaporation or leaching; microbial load of material and air samples; qualitative and quantitative evidence of microorganisms

Type of Testing	Matrix	Parameters	Characteristic Testing Methods
Testing with microorganisms (wood-destroying and wood-discolouring fungi, moulds, bacteria and algae) on materials with and without biocidal protection and/or treatment.	Wood (also modified or otherwise compensated) Wooden materials such as WPC, NFC, BPC Insulation materials Sealants and insulators Mineral and organic construction materials Floor coverings Coatings Paper and cardboard Textiles and leather Plastics Electronic components	Loss of mass Visual evaluation Loss of strength Cell count	DIN EN 73 DIN EN 84 DIN EN 113 DIN EN 152 DIN EN 350 DIN V ENV 807 DIN EN 839 DIN EN 846 DIN EN 1104 ASTM D3273 ÖNORM B 6010 DIN V ENV 12038 DIN CEN/TS 15083 DIN EN 15101-1 DIN CEN/TS 15397 DIN EN 15458 ISO 16869 ISO 22196 DIN EN 60068-2-10
Qualitative and quantitative identification of microorganisms which are destructive to materials or hazardous to health (e.g. wood-destroying fungi, moulds, bacteria, algae) in the environment with microbiological methods	Wood, wooden materials such as WPC, NFC, BPC Insulation materials Sealants and insulators Mineral and organic construction materials Floor coverings Coatings Paper and cardboard Textiles and leather Plastics Electronic components	Mycelial growth Formation of spores Biomass Visual evaluation Cell count	DIN ISO 16000 Parts 17-21

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DIN EN 73 2014-12	Wood preservatives; Accelerated ageing of treated wood prior to biological testing; Evaporative ageing procedure
DIN EN 84 1997-05	Wood preservatives; Accelerated ageing of treated wood prior to biological testing - Leaching procedure
DIN EN 113 Amendment 1 2004-01	Wood preservatives; Test method for determining the protective effectiveness against wood destroying basidiomycetes - Determination of the toxic values
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 252 2015-01	Wood preservatives; Field test method for determining the relative protective effectiveness of a wood preservative in ground contact
DIN EN 350 2016-12	Durability of wood and wood-based products - Testing and classification of the durability to biological agents of wood and wood-based materials
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 839 2015-01	Wood preservatives – Determination of the protective effectiveness against wood destroying basidiomycetes – Application by surface treatment
DIN EN ISO 846 1997-10	Plastics - Evaluation of the action of micro-organisms
DIN EN 1104 2005-11	Paper and board intended to come into contact with foodstuff - Determination of the transfer of antimicrobial constituents
ASTM D3273 2016	Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
ÖNORM B 6010 1999-01	Materials for thermal and/or acoustic insulation in building construction - Test methods
DIN V ENV 12038 2002-07	Durability of wood and wood-based products; Wood-based panels - Method of test for determining the resistance against wood-destroying basidiomycetes

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DIN CEN/TS 15083-1 2005-10	Durability of wood and wood-based products – Determination of the natural durability of solid wood against wood-destroying fungi, Test method – Part 1: Basidiomycetes
DIN CEN/TS 15083-2 2005-10	Durability of wood and wood-based products – Determination of the natural durability of solid wood against wood-destroying fungi, Test method Part 2: Soft rot fungi
DIN EN 15101-1 2013-12 Annex F	Thermal insulation products for buildings - In-situ formed loose fill cellulose (LFCI) products - Part 1: Specification for the products before installation; Annex F: Method for the determination of resistance towards mould infestation
DIN CEN/TS 15397 2006-08	Wood preservatives - Method for natural preconditioning out of ground contact of treated wood specimens prior to biological laboratory test
DIN EN 15457 2014-11	Paints and varnishes - Laboratory method for testing the efficacy of film preservatives in a coating against fungi
DIN EN 15458 2014-11	Paints and varnishes - Laboratory method for testing the efficacy of film preservatives in a coating against algae
DIN ISO 16000-17 2010-06	Indoor air - Part 17: Detection and enumeration of moulds - Culture-based method (ISO 16000-17:2008)
DIN ISO 16000-18 2012-01	Indoor air - Part 18: Detection and enumeration of moulds - Sampling by impaction (ISO 16000-18:2011)
DIN ISO 16000-19 2014-12	Indoor air - Part 19: Sampling strategy for moulds (ISO 16000-19:2012)
DIN ISO 16000-20 2015-11	Indoor air - Part 20: Detection and enumeration of moulds - Determination of total spore count (ISO 16000-20:2014)
DIN ISO 16000-21 2014-05	Indoor air - Part 21: Detection and enumeration of moulds - Sampling from materials (ISO 16000-21:2013)
ISO 16869 2008-06	Plastics - Assessment of the effectiveness of fungistatic compounds in plastics formulations
ISO 22196 2011-08	Plastics - Measurement of antibacterial activity on plastics and other non-porous surfaces

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DIN EN 60068-2-10 2006-03	Environmental testing - Part 2 - 10: Tests - Test J and guidance: Mould growth (IEC 60068-2-10:2005)
DIBt Testing Guidelines Section 5.3 1982-10	Bestimmung der Wirkungstiefe von Holzschutzmitteln gegenüber holzerstörenden Basidiomyceten [Determination of the depth of impact of wood preservatives against wood-destroying basidiomycetes (planning attempt)]
IHD Testing Method AA-20-21 2012-02	Screeningverfahren zur Bestimmung der fungiziden Wirksamkeit von Testsubstanzen im Agaruntermischverfahren [Screening procedure for the determination of the fungicidal effectiveness of test substances in the agar mixing process]
IHD Testing Method AA-20-26 2018-03	Mikrobiologische Untersuchungen von Material- und Luftproben [Microbiological testing of material and air samples]