

Determination of odour emission of building products

DIN EN ISO 16000-28

In Germany, the evaluation of emissions from building products is based on the AgBB scheme (AgBB: committee for Health-related Evaluation of Building Products). Since its introduction in 2002, it has been foreseen to include a sensory assessment in this evaluation scheme. Therefore, a methodical approach for testing and assessment of odour emissions was developed within the last years which is the base of DIN EN ISO 16000-28:2012-12 (Indoor air – Part 28: Determination of odour emissions from building products using test chambers). Depending on the task different parameters such as perceived intensity, hedonic, or acceptance can be determined.

In the near future, the assessment of odour is intended to be included in the AgBB scheme as well as in the awarding basis of the Blue Angel environmental label. Therefore this test will be combined with the determination of VOC and formaldehyde emissions.

In the framework of the Finnish M1 classification, odour acceptance is determined according to DIN EN ISO 16000-28 and assessed in accordance with the M1 requirements.



Test chamber



Determination of odour intensity by comparison with the reference substance acetone

The Entwicklungs- und Prüflabor Holztechnologie GmbH (EPH) has the appropriate technical equipment and has established the test method in a special odour laboratory.

In the EPH, from a large number of employees a panel of 16 persons were trained and according to strict criteria as appropriate examiner selected.

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