

DIN EN 49-1:2016-11 (E)

Wood preservatives - Determination of the protective effectiveness against *Anobium punctatum* (De Geer) by egg-laying and larval survival - Part 1: Application by surface treatment (Laboratory method)

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	Principle	6
5	Test materials	7
5.1	Biological material	7
5.2	Products and reagents	7
5.3	Apparatus	8
6	Sampling	8
7	Test specimens	8
7.1	Species of wood	8
7.2	Wood quality	9
7.3	Provision of test specimens	9
7.4	Dimensions of test specimens	9
7.5	Number of test specimens	9
8	Procedure	10
8.1	Preparation of the test specimens	10
8.1.1	Conditioning of test specimens prior to sealing	10
8.1.2	Sealing	10
8.1.3	Treatment of the test specimens	10
8.1.4	Drying and conditioning of the test specimens after treatment	11
8.2	Exposure of the test specimens to the insects	12
8.3	Conditions and duration of the test	12
8.4	Examination of the test specimens	12
9	Validity of test	12
10	Expression of results	13
10.1	Assessment of the protective effectiveness	13
10.2	Toxic values	13
11	Test report	13
Annex A (informative) Example of a test report		15
Annex B (informative) Identification of sex of test insects <i>Anobium punctatum</i>		17
Annex C (informative) Culturing technique for <i>Anobium punctatum</i>		18

C.1	Culture wood	18
C.1.1	Wood species	18
C.1.2	Collection of culture wood	18
C.1.3	Cutting of culture wood	18
C.1.4	Drying of culture wood	18
C.2	Source of beetles	18
C.2.1	Collection of beetles	18
C.2.2	Quarantine of beetles	18
C.3	Infestation of culture wood	18
C.3.1	Culture vessels	18
C.3.2	Preparation of wood	18
C.3.3	Introduction of beetles	19
C.4	Culturing conditions	19
C.4.1	Normal environment	19
C.4.2	Natural pupation induction	19
C.4.3	Artificial pupation induction	19
C.5	Collection of beetles	19
C.6	General culture hygiene	19
 Annex D (informative) Environmental, health and safety precautions within chemical/biological laboratory		21
 Bibliography		22