# DIN EN 1390:2020-06 (E)

## Wood preservatives - Determination of the eradicant action against Hylotrupes bajulus (Linnaeus) larvae - Laboratory method

## Contents

Page


European foreword ..... 4

Introduction ..... 5

1 Scope ..... 6

2 Normative references ..... 6

3 Terms and definitions ..... 6

4 Principle ..... 7

5 Test materials ..... 7
5.1 Biological material ..... 7
5.1.1 Hylotrupes bajulus (Linnaeus) larvae ..... 7
5.1.2 Source of larvae ..... 7
5.1.3 Provision of larvae ..... 7
5.1.4 Choice of larvae ..... 7
5.2 Products and reagents ..... 8
5.3 Apparatus ..... 8

6 Sampling ..... 9

7 Test specimens ..... 9
7.1 Species of wood ..... 9
7.2 Wood quality ..... 9
7.3 Provision of test specimens ..... 9
7.4 Dimensions of test specimens ..... 10
7.5 Number of test specimens ..... 10
7.5.1 For fast and slow acting wood preservatives, test duration 12 weeks or 24 weeks ..... 10
7.5.2 For deferred acting wood preservatives, test duration 52 weeks ..... 10

8 Procedure ..... 10
8.1 Preparation of the test specimens ..... 10
8.2 Insertion of larvae into the test specimens ..... 12
8.3 Sealing of the surfaces not to be treated ..... 12
8.4 Incubation of the test specimens ..... 12
8.5 Treatment of test specimens ..... 12
8.5.1 Preparation of the treatment solution ..... 12
8.5.2 Application of the treatment solution ..... 13
8.6 Drying of the test specimens ..... 13
8.7 Duration of test ..... 14
8.8 Examination of the test specimens ..... 14
8.8.1 Examination without radiography ..... 14
8.8.2 Examination with radiography (optional) ..... 15
8.8.3 Expression of examination ..... 15

9 Validity of the test ..... 15

10 Expression of results ..... 15

11 Test report ..... 16

Annex A (informative) Example of a test report ..... 17

Annex B (informative) Technique for culturing Hylotrupes bajulus (Linnaeus) ..... 19

B.1 General ..... 19
B.2 Obtaining parent beetles ..... 19
B.3 Mating ..... 19
B.4 Egg-laying ..... 19
B.5 Hatching of eggs ..... 20
B.6 Larval development ..... 20
B.7 Enemies and parasites ..... 21

Annex C (informative) Environmental, health and safety precautions within chemical/biological laboratory ..... 22

Bibliography ..... 23