

MPA | Eberswalde

Materialprüfanstalt
Brandenburg GmbH

Prüfung, Überwachung,
Zertifizierung, Gutachten,
Forschung und Entwicklung

Test Report

No. 32/24/10660/01

Client: WTT A/S
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DK – 7200 – Grinsted

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Geschäftsführer:
Dr. Robby Wegner

HRB 10408 FF

Date of order: 24.01.2024

Order received: 30.01.2024

Applied test procedure: Screening test acc. to MPA SAA E-02 (2022)
Determination of the durability against termite attack in a force
test based on EN 117 (2024)

Test products: Two strips of modified wood
Sample no. 77: Treatment: 20% - 130°C
Sample no. 44: Treatment: 20% - 150°C
no further information was provided

Sample received: 29.01.2024
in total two strips each 450 mm x 55 mm x 25 mm

Persons in charge: Dr. Eva-Maria Fennert; Dipl. Ing. (FH) Thomas Kolling

Period of testing: 02/2024 – 03/2024

The test report comprises 3 pages (inclusive annex). It refers exclusively to the material submitted for testing and remains property of MPA until completion of full payment. The test material is being stored for 2 years. Publication of test reports is only permissible if published as a whole. Publication of excerpts require in every single case the revocable written consent of MPA.

Sparkasse Schwandorf
Kto-Nr.: 100 164 862
BLZ: 750 510 40
IBAN: DE55 7505 1040 0100 1648 62
BIC-/SWIFT: BYLADEM1SAD
USt.-Id. DE814335485
Finanzamt Eberswalde



Die Akkreditierung gilt nur für die in der Urkunde aufgeführten Verfahren.



vom DIBT anerkannte
PÜZ-Stelle BRA02



EC notified 0763



CARB notified TPC 18


Dimension of test blocks:	50 mm x 25 mm x 15 mm The test blocks produced from strip no. 77 were uniformly dark in colour. The test blocks produced from strip no. 44 were inhomogeneously dark coloured.
Number of replicates:	3 per strip
Ageing test carried out:	none
Termite species used:	<i>Mastotermes darwiniensis</i>
Number of termites per test chamber:	100 workers, 10 soldiers
Type of test chamber:	Glass vessels, Ø 14 cm filled with moistened Vermiculite
Layout of test blocks in the test vessels:	Force test Each test chamber contained only one test block, see the following photo 
Test conditions:	Acc. to EN 117
Date of exposure the termites to the test blocks:	22.02.2024
Test duration:	32 days
Date of final examination of the test specimens	25.03.2024

Table 1: Extent of destruction of test blocks and mortality of termites – force test –

Test block No.	Kind of treatment	Number of surviving termites		Visual evaluation of test block*)
		Workers	Soldiers	
77 - 1	20% - 130°C	0	0	0
77 - 2		0	0	0
77 - 3		0	0	0
44 - 1	20% - 150°C	0	0	1
44 - 2		0	0	1
44 - 3		0	0	1
K 1	Control (sapwood of <i>Pinus sylvestris</i>)	93	0	4
K 2		93	0	4

1) Visual evaluation of test blocks acc. to EN 117

0) **no attack:**

1) **attempted attack:**

- i) superficial erosion of insufficient depth to be measured on an unlimited area of the test specimen; or
- ii) attack to a depth of 0,5 mm provided that this is restricted to an area or areas not more than 30mm² in total; or
- iii) combination of i) and ii);

2) **slight attack:**

- i) erosion of < 1 mm in depth limited to not more than 1/10 of the surface area of the test specimen; or
- ii) single tunneling to a depth of up to 3 mm; or
- iii) combination of i) and ii);

3) **average attack:**

- i) erosion of < 1 mm in depth over more than 1/10 of the surface area of the test specimen; or
- ii) erosion of > 1 mm to < 3 mm in depth limited to not more than 1/10 of the surface area of the test specimen; or
- iii) isolated tunneling of a depth > 3 mm not enlarging to form cavities; or
- iv) any combination of i), ii) or iii);

4) **strong attack:**


- i) erosion of > 1 mm in depth of more than 1/10 of the surface area of the test specimen; or
- ii) tunneling penetrating to a depth > 3 mm and enlarging to form a cavity in the body of the test specimen; or
- iii) combination of i) and ii).

Note:

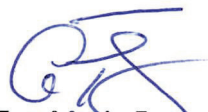
The interpretation of this test report as well as the practical conclusions that may be drawn from it require detailed knowledge of the problems of wood preservation. Therefore, the test report by itself does not constitute an approval certificate for the test product.

MPA Eberswalde
Materialprüfanstalt Brandenburg GmbH
Holz und Holzschutz

Eberswalde, 28.03.2024


Dr. Robby Wegner
(Head of institute)




Dr. Eva-Maria Fennert
(Person in charge)