

TEST REPORT

353134 / 1


Revision: 0
Date of sample receipt: 19/07/23
Date of test: 24/07/23
Date of issue: 23/01/24
Sample name: Spruce

THERMOARENA OU
FARMI TEE 5
72501 KOIGI KULA, JARVA MAAKOND
EE - ESTONIA

Inherent or enhanced durability of wood against wood-destroying basidiomycetes EN 113-2:2020

Timber species:	not determined
Origin:	not determined
Description of timber:	heat treated wood blocks
% earlywood in growth ring	not determined
Sampling:	carried out by the orderer
Density of timber:	407 kg/mc
Reference timber species:	Pinus sylvestris, sapwood
Ageing procedure applied:	none
Method of sterilisation:	gamma irradiation (25kGy)
Species and strain number of test fungi:	Coniophora puteana DSM 3085; Rhodonia (Poria) placenta DSM 3088
Duration of exposure to fungi:	from 02/10/2023 to 22/01/2024
Mean mass loss of reference timber:	see Table 1
Median mass loss of test timber:	see Table 3
Moisture content of test specimens:	See Table 2
Provisional durability class according to this standard:	DC 1, very durable
Officer in charge of testing:	Dr. Elena Conti
Notes:	- The interpretation and practical conclusions that can be drawn from this test report require a specific knowledge of timber.

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The deputy director
Dr. Daniele Bergamasco


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TEST REPORT

353134 / 1 rev. 0

Date of issue:

23/01/24

Sample name:

Spruce

Table 1

Percentage mass loss of the reference test specimens (% m/m)

Pinus sylvestris with Coniophora puteana		Pinus sylvestris with Rhodonia placenta	
1	28,27	1	30,84
2	37,86	2	20,52
3	27,03	3	23,87
4	41,74	4	25,60
5	24,84	5	33,14
6	22,54	6	23,21
7	25,40	7	21,43
8	25,13	8	21,82
9	25,25	9	31,26
10	44,03	10	27,62
mean	30,21	mean	25,93

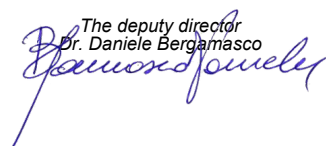
Note on test validity: the mass loss values meet the validity criteria of the test

Table 2

Moisture content of the test specimens after exposure to the fungi (% m/m)

Coniophora puteana		Rhodonia placenta	
mean	48	mean	65
lowest	30	lowest	23
highest	103	highest	100

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353134 / 1 rev. 0

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Table 3

Percentage mass loss of the test specimens (% m/m)

Coniophora puteana		Rhodonia placenta	
1	0,51	1	2,67
2	1,34	2	-0,69
3	0,70	3	1,37
4	0,51	4	-0,71
5	0,67	5	6,58
6	1,05	6	0,72
7	1,52	7	3,10
8	0,43	8	1,17
9	1,24	9	0,99
10	0,78	10	0,80
11	0,95	11	6,57
12	0,21	12	-0,42
13	0,47	13	3,21
14	1,36	14	-0,17
15	-0,49	15	0,77
16	1,09	16	0,72
17	1,09	17	0,34
18	0,60	18	9,90
19	0,76	19	1,62
20	1,08	20	1,60
21	0,99	21	3,33
22	-0,51	22	-0,59
23	0,51	23	3,02
24	0,23	24	-0,46
25	1,17	25	2,52
26	1,22	26	-0,43
27	1,15	27	-0,13
28	0,53	28	1,64
29	1,21	29	1,30
30	0,71	30	0,17
median	0,77	median	1,33

Note: waterlogging was observed in specimens marked in red. The corresponding mass losses were not used for the median calculation

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