



Test Results | THERMORY® Spruce Rot Resistance

Rot
Resistance

TESTED

► Fungus spores were introduced to THERMORY® Spruce samples to promote fungal growth over a period of time with control samples, to interpolate the class of rot resistance for European standards.

RESULTS

► We achieved Class 1 rot resistance which means that on average, the THERMORY® Spruce cladding or decking will last outdoors for at least 25 years or more with minimal maintenance or added oils.



► DECKING ► CLADDING ► PORCH FLOORING

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centro ricerche-sviluppo e laboratori prove
settori legno-arredo, ambiente e alimenti

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TEST REPORT

132648 / 1

Date received: 29-09-11
Date of test: 29-09-11
Date of issue: 06-03-12

BRENTOL OU
PETERBURI RD 44
11415 TALLINN
EE - ESTONIA

Sample name: NORDIC SPRUCE HEAT TREATED 215°C

Timber species:	heat treated nordic spruce
Origin:	unknown
Sampling:	done by the orderer
Density of timber:	461 kg/m ³
Reference timber species:	Pinus sylvestris (scots pine sapwood);
Ageing procedure applied:	none
Method of sterilisation:	gamma irradiation
Species and strain number of test fungi:	Coniophora puteana DSM 3085 Poria placenta DSM 3088
Duration of exposure to fungi:	16 weeks from 27/10/2011 to 27/02/2012
Mass loss of reference timber:	see Table 1
Moisture content of test timber	see Table 2
Mass loss of test timber:	see Table 3
Provisional durability rating:	1, very durable
Deviations from the standard:	the test was performed on treated wood; sampling of wood was done by the orderer

Officer in charge of testing: Alessia Matellon

Note:

The interpretation and practical conclusions that can be drawn from this test report require a specific knowledge of timber.

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Marketing Director
Dr. Andrea Giavon

The sample name and, when relevant, its description, are given by the orderer, and CATAS does not assume responsibility on this matter. This test report relates to the sample submitted for the test and no others. Additions, deletions or alterations are not permitted. This test report must always be reproduced in its entirety. Unless otherwise stated, sampling has been carried out by the orderer.



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Table 1
Percentage mass loss of reference wood

Pinus sylvestris with Coniophora	mass loss (%)	Pinus sylvestris with Poria placenta	mass loss (%)
1	35,40	1	21,20
2	33,50	2	27,90
3	32,90	3	24,40
4	30,10	4	14,70
5	25,40	5	16,60
6	32,70	6	23,70
7	23,30	7	15,50
8	30,60	8	21,10
9	28,90	9	15,80
10	25,40	10	21,90
media	29,80	media	20,30

Note: test valid

Table 2
Moisture content of test wood specimens exposed to fungi

with Coniophora puteana	humidity (%) mean / lowest / highest	with Poria placenta	humidity (%) mean / lowest / highest
10 specimens	21,4 / 8,2 / 56,6	10 specimens	29,0 / 7,4 / 88,3

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*Managing Director
Dr. Andrea Giavon*

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Table 3
Percentage mass loss of test wood specimens exposed to fungi

with Coniophora puteana	mass loss (%)	with Poria placenta	mass loss (%)
1	1,00	1	11,20
2	5,70	2	9,50
3	5,70	3	24,80
4	2,70	4	16,30
5	0,80	5	3,10
6	5,00	6	1,50
7	1,40	7	0,70
8	1,40	8	8,10
9	0,90	9	0,00
10	3,60	10	3,90
11	7,60	11	8,00
12	10,50	12	10,50
13	2,10	13	-1,70
14	1,00	14	-1,50
15	0,60	15	9,30
16	-0,30	16	1,50
17	3,70	17	0,10
18	0,10	18	5,80
19	1,70	19	9,50
20	3,30	20	2,90
21	4,00	21	4,50
22	3,10	22	3,50
23	-1,30	23	6,80
24	11,30	24	3,20
25	4,90	25	4,60
26	9,40	26	18,70
27	5,10	27	10,80
28	-0,80	28	6,40
29	4,00	29	1,80
30	1,30	30	13,80
median	2,90	median	5,20

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