



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

CATAS S.p.A.  
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## TEST REPORT

132647 / 1

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

Sample name: NORDIC PINE HEAT TREATED 215°C

### Durabilità naturale del legno verso funghi basidiomiceti UNI CEN/TS 15083-1:2005

Timber species:	heat treated nordic pine
Origin:	unknown
Sampling:	done by the orderer
Density of timber:	588 kg/m <sup>3</sup>
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:	2, 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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Managing 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.

pag. 1/3



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TEST REPORT **132647 / 1**  
Date of issue: 06/03/12  
Sample name: NORDIC PINE HEAT TREATED 215°C

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
<b>mean</b>	<b>29,80</b>	<b>mean</b>	<b>20,30</b>

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	33,7/12,1/96,4	10 specimens	26,5/12,7/39,9

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TEST REPORT

132647 / 1 S

Date of issue:

06/03/12

Sample name:

NORDIC PINE HEAT TREATED 215°C

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

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

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