



centro ricerche-sviluppo e laboratori prove
settori legno-arredo, ambiente e alimenti
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AMERICAN HARDWOOD EXPORT COUNCIL!
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GB - GREAT BRITAIN

TEST REPORT

146959 / 1

Date received: 19-09-12
Date of test: 28-02-13
Date of issue: 05-09-13

Sample name: HEAT TREATED SOFT MAPLE

**Natural durability of solid wood against wood-destroying fungi - Part 1:
Basidiomycetes UNI CEN/TS 15083-1:2005**

Timber species: heat treated soft Maple, as declared by the orderer
Origin: -
Sampling: done by the orderer from heat treated boards
Density of timber: 615 kg/m³
Reference timber species: Pinus sylvestris (scots pine sapwood); Fagus sylvatica (beech)
Ageing procedure applied: none
Method of sterilisation: gamma irradiation (25kGy)
Species and strain number of test fungi: Coniophora puteana DSM 3085; Coriolus versicolor DSM 3086
Duration of exposure to fungi: 16 weeks from 05/04/2013 to 26/07/2013
Mean mass loss of reference timber: 33,9% scots pine vs Coniophora puteana; 21,7% beech vs Coriolus versicolor
Median mass loss of test timber: 3,1 % with Coniophora puteana; 2,6 % with Coriolus versicolor
Provisional durability class: 1 - very durable
Officer in charge of testing: Dr. Elena Conti

Notes:

- The provisional durability class was attributed in accordance with Annex D, Table D.1 of CEN TS 15083-1.

Durability class	Description	% loss in mass
1	Very durable	≤ 5
2	Durable	> 5 to ≤ 10
3	Moderately durable	> 10 to ≤ 15
4	Slightly durable	> 15 to ≤ 30
5	Not durable	> 30

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

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.

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Sample name: **HEAT TREATED SOFT MAPLE**

Table 1
Percentage mass loss of reference wood specimens

Pinus sylvestris with Coniophora puteana	mass loss (%)	Fagus sylvatica with Coriolus versicolor	mass loss (%)
1	29,50	1	21,80
2	34,70	2	21,80
3	26,30	3	21,50
4	34,80	4	21,50
5	46,90	5	21,80
6	31,30	6	21,70
7	27,00	7	21,40
8	43,00	8	21,80
9	26,10	9	21,70
10	39,40	10	21,90
mean	33,90	mean	21,70

Note: test valid

Table 2
Moisture content of test wood specimens exposed to fungi

with Coniophora puteana	humidity (%) mean / lowest / highest	with Coriolus versicolor	humidity (%) mean / lowest / highest
30 specimens	63/37/91	30 specimens	39/16/75

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Table 3 HEAT TREATED SOFT MAPLE
Percentage mass loss of test wood specimens exposed to fungi

with <i>Coniophora puteana</i>	mass loss (%)	with <i>Coriolus versicolor</i>	mass loss (%)
1	5,04	1	2,20
2	3,26	2	2,39
3	4,79	3	2,95
4	3,54	4	3,36
5	2,34	5	2,49
6	2,67	6	2,39
7	3,26	7	2,49
8	3,43	8	2,38
9	3,34	9	2,66
10	3,16	10	2,61
11	3,33	11	2,48
12	2,63	12	2,59
13	3,10	13	2,40
14	3,38	14	2,60
15	3,28	15	2,84
16	2,78	16	2,68
17	2,66	17	2,60
18	2,73	18	2,75
19	2,38	19	2,48
20	2,47	20	2,31
21	3,04	21	2,70
22	3,22	22	2,41
23	3,04	23	2,70
24	2,54	24	2,86
25	2,52	25	2,64
26	5,07	26	2,67
27	2,48	27	2,61
28	2,97	28	2,44
29	4,11	29	2,48
30	3,29	30	2,51
	3,13	median	2,60



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*Managing Director
Dr. Andrea Giavon*