



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

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## TEST REPORT

# 206157 / 1

Date received: 05/10/15  
Date of test: 12/10/15  
Date of issue: 02/02/16

LEGNONORD S.P.A.  
VIA MALIGNANI 63  
33031 BASILIANO (UD)  
ITALIA

Sample name: FSC Certified Plantation Grown Teak from Costa Rica

## Wood durability. Resistance to basidiomycetes fungi PTP 127:2016, rev.0

Wood species: Tectona grandis, heartwood  
Origin of the wood species: Costa Rica  
Sampling: done by the orderer  
Number of specimens: 27/fungus  
Specimen size (mm): 50x25x5 mm  
Ageing of the test specimens: none  
Method of sterilization of wood specimens: Irradiation  
Reference timber: Fagus sylvatica  
Test fungi: Coniophora puteana DSM 3085  
Coriolus versicolor DSM 3086  
Exposure to fungi: from 04/12/2015 to 25/01/2015  
Mass loss of reference timber (%)  
with C. versicolor : min 15,7 max 25,7 mean 22,1  
with C. puteana: min 31,1 max 46,2 mean 37,4  
Mass loss of the tested wood specimens: see table 1

### Notes:

- the present test method complies with CEN/TS 15083-1 except for the specimen size and the time of exposure to the test fungi.
- the provisional durability class of the wood species is attributed according to CEN/TS 15083, based on the median mass loss of the wood specimens exposed to each fungus.

The rating scale is as follows:

median mass loss:	≤ 5	class 1	very durable
median mass loss:	> 5 to ≤ 10	class 2	durable
median mass loss:	> 10 to ≤ 15	class 3	moderately durable
median mass loss:	> 15 to ≤ 30	class 4	slightly durable
median mass loss:	> 30	class 5	not durable

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Managing Director  
Dr. Andrea Giavon

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TEST REPORT

**206157 / 1**

Date of issue:

02/02/16

Sample name:

FSC Certified Plantation Grown Teak from Costa Rica

Table 1: mass loss of wood specimens

exposed to <i>C. versicolor</i>		exposed to <i>C. puteana</i>	
specimen	mass loss (% m/m)	specimen	mass loss (% m/m)
DT6-10	4,7	DT6-1	4,6
DT6-11	4,6	DT6-2	4,5
DT6-12	4,7	DT6-3	4,3
DT6-13	4,5	DT6-4	4,3
DT6-14	4,4	DT6-5	4,1
DT6-15	4,5	DT6-6	4,2
DT6-16	4,9	DT6-7	4,2
DT6-17	5,2	DT6-8	4,1
DT6-18	5,2	DT6-9	4,2
DT10-10	4,1	DT10-1	3,9
DT10-11	4,1	DT10-2	4,2
DT10-12	4,4	DT10-3	3,8
DT10-13	4,4	DT10-4	3,9
DT10-14	4,2	DT10-5	4,1
DT10-15	4,2	DT10-6	4,5
DT10-16	4,4	DT10-7	4,3
DT10-17	4,2	DT10-8	3,8
DT10-18	4	DT10-9	4,1
DT15-10	4,4	DT15-1	4,2
DT15-11	4,6	DT15-2	3,6
DT15-12	4,4	DT15-3	3,9
DT15-13	4,8	DT15-4	4
DT15-14	4,8	DT15-5	3,8
DT15-15	4,7	DT15-6	3,8
DT15-16	5	DT15-7	3,8
DT15-17	4,5	DT15-8	4,1
DT15-18	4,9	DT15-9	4,2
median mass loss	4,5	median mass loss	4,1

Provisional durability: class 1 - very durable

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## TEST REPORT

# 206157 / 2

Date received: 05/10/15  
Date of test: 12/10/15  
Date of issue: 02/02/16

LEGNONORD S.P.A.  
VIA MALIGNANI 63  
33031 BASILIANO (UD)  
ITALIA

Sample name: FSC Certified Plantation Grown Teak from Costa Rica

## Wood durability. Resistance to basidiomycetes fungi PTP 127:2016, rev.0

Wood species: Tectona grandis, sapwood  
Origin of the wood species: Costa Rica  
Sampling: done by the orderer  
Number of specimens: 27/fungus  
Specimen size (mm): 50x25x5 mm  
Ageing of the test specimens: none  
Method of sterilization of wood specimens: Irradiation  
Reference timber: Fagus sylvatica  
Test fungi: Coniophora puteana DSM 3085  
Coriolus versicolor DSM 3086  
Exposure to fungi: from 04/12/2015 to 25/01/2015  
Mass loss of reference timber (%)  
with C. versicolor : min 15,7 max 25,7 mean 22,1  
with C. puteana: min 31,1 max 46,2 mean 37,4  
Mass loss of the tested wood specimens: see table 1

### Notes:

- the present test method complies with CEN/TS 15083-1 except for the specimen size and the time of exposure to the test fungi.
- the provisional durability class of the wood species is attributed according to CEN/TS 15083, based on the median mass loss of the wood specimens exposed to each fungus.

The rating scale is as follows:

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TEST REPORT

**206157 / 2**

Date of issue:

02/02/16

Sample name:

FSC Certified Plantation Grown Teak from Costa Rica

Table 1: mass loss of wood specimens

exposed to <i>C. versicolor</i>		exposed to <i>C. puteana</i>	
specimen	mass loss (% m/m)	specimen	mass loss (% m/m)
AT6-10	10,09	AT6-1	8,1
AT6-11	10,26	AT6-2	8,4
AT6-12	9,97	AT6-3	8,8
AT6-13	10,86	AT6-4	8,5
AT6-14	10,65	AT6-5	10,4
AT6-15	10,69	AT6-6	8,9
AT6-16	waterlogged	AT6-7	10,5
AT6-17	waterlogged	AT6-8	10,1
AT6-18	waterlogged	AT6-9	10
AT10-10	9,43	AT10-1	7,8
AT10-11	8,92	AT10-2	7,9
AT10-12	9,4	AT10-3	8
AT10-13	8,97	AT10-4	8,2
AT10-14	9,13	AT10-5	8,4
AT10-15	9,6	AT10-6	8,1
AT10-16	9,26	AT10-7	8,2
AT10-17	9,54	AT10-8	8,2
AT10-18	9,72	AT10-9	7,2
AT15-10	9,53	AT15-1	8,1
AT15-11	11,38	AT15-2	8,9
AT15-12	9,67	AT15-3	8,5
AT15-13	9,81	AT15-4	8,4
AT15-14	9,46	AT15-5	8,4
AT15-15	9,57	AT15-6	8,4
AT15-16	9,39	AT15-7	8,4
AT15-17	9,58	AT15-8	14,5
AT15-18	9,33	AT15-9	8,7
median mass loss	9,6	median mass loss	8,4

Provisional durability: class 2 - durable

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