

THE INTERNATIONAL RESEARCH GROUP ON WOOD PROTECTION

Section 2

Testing Methodology and Assessment

Scots pine sapwood

**Natural durable timber – Basidiomycete test results
IRG/WP Durability Database**

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Disclaimer

The responsibility for the data presented in this paper falls to the authors exclusively. The data presented are raw test data and intended to get used for scientific purposes only.

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AIMS AND SCOPE OF THE IRG-WP DURABILITY DATABASE

The overall aim of the IRG-WP durability data base is the allocation of wood durability test results for comparative studies and re-analyses. The data base shall serve as pool for service life prediction and modelling and shall contribute to an enhanced understanding of wood durability. It is an open web-based platform for scientific exchange in the field of wood durability and wood protection.

It is NOT the aim of the data base to promote or denigrate any product or material. The data base will contain raw data only; no statistical evaluation will be included. Thus it will be the exclusive responsibility of the user to interpret the test results published in the data base.

For each data set, the full range of information about the test method, the test material, and other relevant parameters, is required to guarantee reliability of the data. For this reason every data set submitted is reviewed and checked for completeness of all relevant data.

The database allows submission of assessment data from all kinds of standardized and non-standardized wood durability tests.

Records of the IRG/WP Durability data base shall be cited as in the following example:

Brischke C., Meyer L. (2013) Douglas fir. Natural durable timber - Field test results. IRG/WP Durability Database. Stockholm: The International Research Group on Wood Protection, IRG/WP/DDB 13-00001.

INFORMATION

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TESTED TIMBER

Trade name	Scots pine sapwood
Botanical name	<i>Pinus sylvestris</i> L.
Origin	Germany
Number of replicates	30

TEST METHODS

Standard method	CEN-TS 15083-1 (2005)
Alteration of standard	16 weeks exposure
Leaching/Ageing procedure	EN 84 (1997)
Specimen dimension and shape	50 x 25 x 15 mm ³

RESULTS

Assessment

Material	<i>Pinus sylvestris</i> L.					
Test fungus	<i>Postia placenta</i> (<i>Rhodonía placenta</i>)					
Measure	Relative mass loss	Final moisture content	Oven dry density			
Replicate ID	[%]	[%]	[kg/m³]			
1	23.9	114.3	475			
2	23.6	103.4	468			
3	21.1	127.8	491			
4	26.8	75.5	512			
5	24.2	107.2	517			
6	24.0	81.4	508			
7	26.2	65.3	496			
8	24.8	144.0	501			
9	22.5	117.6	479			
10	22.5	86.4	504			
11	24.7	90.8	455			
12	21.4	124.3	461			
13	26.1	64.1	493			
14	18.3	109.5	537			
15	27.0	104.3	456			
16	24.1	105.9	441			
17	24.4	136.8	474			
18	23.6	71.9	506			
19	25.8	86.0	439			
20	23.2	131.6	452			
21	23.8	107.9	485			
22	21.9	106.5	505			
23	20.4	132.8	476			
24	28.6	92.2	456			
25	20.9	154.6	465			
26	21.8	57.0	497			
27	28.2	124.5	492			
28	19.2	67.1	523			
29	29.2	86.3	468			
30	25.2	111.1	508			