#### 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

Bongers, F.; Gellerich, A.; Bollmus, S.

#### **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.

IRG SECRETARIAT
Box 5609
SE-114 86 Stockholm
Sweden
www.irg-wp.org

#### 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**

Submission Date 08.01.2016

#### **AUTHORS**

**Corresponding author** Ferry Bongers

Email ferry.bongers@accsysplc.com

Institution Access Technologies

Street/PO Box PO Box 2147

City Arnhem

Zip Code 6802 CC

Country Netherlands

Author 2 Antje Gellerich

Email Antje.Gellerich@forst.uni-goettingen.de

Institution Georg-August-Universität Göttingen

Street/PO Box Büsgenweg 4

City Göttingen

Zip Code D-37077

Country Germany

**Author 3** Susanne Bollmus

Email sbollmu@gwdg.de

Institution Georg-August-Universität Göttingen

Street/PO Box Büsgenweg 4

City Göttingen

Zip Code D-37077

Country Germany

### **TESTED TIMBER**

Trade name Scots pine sapwood

Botanical name Pinus sylvestris L.

Origin Germany

Number of replicates 12

# **TEST METHODS**

Standard method EN 113 (1996)

Alteration of standard 16 weeks exposure

Leaching/Ageing procedure EN 84 (1997)

Specimen dimension and shape 50 x 25 x 15 mm<sup>3</sup>

# **RESULTS**

# Assessment

Material	Pinus sylvestris L.					
Test fungus	Coniophora puteana			Postia placenta (Rhodonia placenta)		
Measure	Relative mass loss	Final moisture content	Oven-dry density	Relative mass loss	Final moisture content	Oven-dry density
Replicate ID	[%]	[%]	[kg/m³]	[%]	[%]	[kg/m³]
1	45.2	77.5	460	18.5	58.0	480
2	44.1	77.8	470	22.3	120.3	450
3	42.4	72.0	530	22.5	108.8	470
4	43.8	72.0	470	20.0	64.2	470
5	40.0	68.1	490	20.9	57.0	460
6	46.9	78.5	450	23.1	133.3	460
7	44.5	73.5	460	21.3	78.0	480
8	47.6	72.9	450	23.8	56.5	480
9	45.4	75.1	530	29.4	121.0	440
10	43.3	72.2	470	14.6	47.7	470
11	45.2	72.8	470	23.8	102.0	460
12	47.6	78.7	460	14.1	46.3	470