## THE INTERNATIONAL RESEARCH GROUP ON WOOD PROTECTION

**Section 2** 

**Testing Methodology and Assessment** 

# Scots pine sapwood

# Natural durable timber – Soil box test 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 *Pinus sylvestris* L.

Origin Germany

Number of replicates 45

# **TEST METHODS**

Standard method ENV 807 (2001)

Specimen dimension and shape 100 x 10 x 5 mm<sup>3</sup>

## **RESULTS**

## Assessment

Exposure time			24 weeks	eeks		
Measure	Relative mass loss	Final moisture content	Oven-dry density			
Replicate ID	[%]	[%]	[kg/m³]			
1	34.6	115.7				
2	24.8	175.7				
3	41.6	106.3				
4	32.1	110.3				
5	28.8	181.3				
6	33.2	70.0				
7	36.2	135.8				
8	27.8	64.1				
9	37.5	79.8				
10	45.1	167.2				
11	33.5	68.5				
12	39.1	90.8				
13	50.7	210.5				
14	27.2	63.9				
15	42.3	108.2				
16	29.7	65.0				
17	42.6	90.4				
18	37.2	80.0				
19	33.9	66.8				
20	29.6	70.7				
21	24.7	60.3				
22	30.0	66.2				
23	40.1	100.1				
24	33.7	68.5				
25	38.8	87.0				
26	17.6	50.2				
27	23.2	54.0				
28	34.3	77.7				
29	36.4	74.3				
30	25.1	52.8				
31	22.7	229.1				
32	37.1	107.2				
33	19.2	119.1				
34	18.1	174.7				
35	36.0	125.6				
36	31.0	202.8				
37	38.6	117.9				

Exposure time			12 weeks		
Measure	Relative mass loss	Final moisture content	Oven-dry density		
Replicate ID	[%]	[%]	[kg/m³]		
38	43.6	160.5			
39	27.9	185.0			
40	34.4	92.4			
41	35.5	123.8			
42	26.5	172.5			
43	36.4	92.4			
44	36.5	182.1			
45	36.3	89.6			