

THE INTERNATIONAL RESEARCH GROUP ON WOOD PROTECTION

Section 2

Testing Methodology and Assessment

European beech

**Natural durable timber – Field 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 European beech

Botanical name *Fagus sylvatica* L.

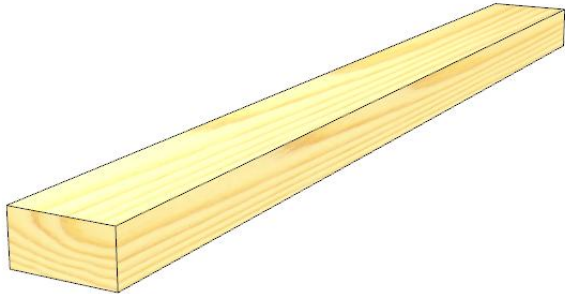
Origin Norway

Number of replicates 10

REFERENCE TIMBER

Trade name	Scots pine sapwood
Botanical name	<i>Pinus sylvestris</i> L.
Origin	Norway
Number of replicates	10

TEST METHODS

Standard method	Graveyard test - EN252 (1990)
Reference	EN 252 (1990) Field test method for determining the relative protective effectiveness of a wood preservative in ground contact. European Committee for Standardization
Specimen dimension and shape	25 x 50 x 500 mm ³
Sketch of specimen (optional)	

Rating scheme	0 (sound), 1 (slight decay), 2 (moderate decay), 3 (severe decay), 4 (failure) after EN 252 (1989)
Address of test site	Sørkedalen, Oslo, Norway
Geographic coordinates (optional)	60°01'29,4"N, 10°35'34,3"E
Start of test	September 15 2004
Last evaluation	September 15 2008
Status of test	terminated

RESULTS

Assessment

Material	<i>Fagus sylvatica</i> L.					
Date	15.09.2004	15.09.2005	15.09.2006	15.09.2007	15.09.2008	
Assessment	1	2	3	4	5	6
Replicate ID	[0-4]	[0-4]	[0-4]	[0-4]	[0-4]	[0-4]
1	1	1	4	4	4	
2	1	1	2	2	4	
3	1	4	4	4	4	
4	2	2	4	4	4	
5	1	4	4	4	4	
6	2	2	2	4	4	
7	2	2	2	4	4	
8	2	2	4	4	4	
9	2	2	4	4	4	
10	2	4	4	4	4	

Assessment Reference

Material	<i>Pinus sylvestris</i> L.					
Date	15.09.2004	15.09.2005	15.09.2006	15.09.2007	15.09.2008	
Assessment	1	2	3	4	5	6
Replicate ID	[0-4]	[0-4]	[0-4]	[0-4]	[0-4]	[0-4]
1	1	1	2	3	4	
2	0	1	2	4	4	
3	1	3	4	4	4	
4	0	1	2	2	4	
5	1	2	4	4	4	
6	1	2	2	4	4	
7	1	1	2	4	4	
8	1	2	3	4	4	
9	0	2	2	4	4	
10	1	2	4	4	4	

REFERENCES

Flæte P.O., Alfredsen A., Evans F.G. (2011): Natural durability of wood tested in different environments in Northern Europe. Stockholm: The International Research Group on Wood Protection, IRG/WP/11-10747.