

THE INTERNATIONAL RESEARCH GROUP ON WOOD PROTECTION

Section 2

Testing Methodology and Assessment

Radiata pine sapwood

**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 Radiata pine
Botanical name *Pinus radiata* D. Donn.
Origin New Zealand
Number of replicates 10

REFERENCE TIMBER

Trade name None

TEST METHODS

Standard method AWPA E7-09
Reference AWPA E7-09. Standard method of evaluating wood preservatives by field tests with stakes. American Wood Protection Association, Birmingham, AL.
Specimen dimension and shape 20 x 20 x 500 mm³

Rating scheme	as per AWP A E7-09: 10 (sound), 9.5 (trace or suspicion of attack), 9 (slight decay up to 3% of cross section), 8 (moderate decay from 3 to 10% of cross section), 7 (moderate/severe decay from 10 to 30% of cross section), 6 (severe decay from 30 to 50% of cross section), 4 (very severe decay from 50 to 75% of cross section), 0 (failure).
Address of test site	Whakarewarewa, Rotorua, New Zealand
Geographic coordinates (optional)	-38°20'33,11''S 176°30'67,33''W
Start of test	April 2007
Last evaluation	April 2011
Status of test	Terminated

RESULTS

Assessment

Material	<i>Pinus radiata</i> D. Donn. sapwood					
Date	04/2008	04/2009	04/2010	04/2011		
Assessment	1	2	3	4	5	6
Replicate ID	[10-0]	[10-0]	[10-0]	[10-0]	[10-0]	[10-0]
1	9	0	0	0		
2	8	0	0	0		
3	8	4	0	0		
4	7	4	0	0		
5	7	4	6	0		
6	9	4	0	0		
7	7	0	0	0		
8	7	0	0	0		
9	7	0	0	0		
10	8	7	0	0		