

AS/NZS 1604.1:2021



Australian/New Zealand Standard™

Preservative-treated wood-based products

Part 1: Products and treatment



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AS/NZS 1604.1:2021

This Joint Australian/New Zealand Standard™ was prepared by Joint Technical Committee TM-012, Timber Grading and Preservation. It was approved on behalf of the Council of Standards Australia on 24 March 2021 and by the New Zealand Standards Approval Board on 03 March 2021.

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Australian and New Zealand Timber Preservative Manufacturers Association
Australian Forest Products Association
Australian Timber Flooring Association
Australian Timber Importers Federation
Building Research Association of New Zealand
Engineered Wood Products Association of Australasia
Forest and Wood Products Australia
Forestry Corporation of NSW
Glued Laminated Timber Association of Australia
Ministry of Business, Innovation and Employment (NZ)
National Centre for Timber Durability and Design Life
NATSPEC
New Zealand Timber Industry Federation
New Zealand Timber Preservation Council
New Zealand Wood Processors Association
Responsible Care New Zealand
Scion
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Australian/New Zealand Standard™

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Part 1: Products and treatment

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-012, Timber Grading and Preservation, to supersede AS 1604.1—2012, *Specification for preservative treatment, Part 1: Sawn and round timber*, AS/NZS 1604.2—2012, *Specification for preservative treatment, Part 2: Reconstituted wood-based products*, AS/NZS 1604.3—2012, *Specification for preservative treatment, Part 3: Plywood*, AS/NZS 1604.4—2012, *Specification for preservative treatment, Part 4: Laminated veneer lumber (LVL)*, and AS/NZS 1604.5—2012, *Specification for preservative treatment, Part 5: Glued laminated timber products*.

The objective of this Standard is to provide minimum specifications for preservative-treated wood-based products for use by manufacturers (treaters) and to facilitate the correct specification and use of preservative-treated wood-based products by designers, specifiers and others.

This Standard is part of a series on preservative-treated wood-based products as follows:

AS/NZS 1604.1, *Preservative-treated wood-based products, Part 1: Products and treatment*

AS/NZS 1604.2, *Preservative-treated wood-based products, Part 2: Verification requirements*

AS/NZS 1604.3, *Preservative-treated wood-based products, Part 3: Test methods*

The revision of the series includes:

- (a) A greater performance-oriented approach.
- (b) Improved clarity and uniformity around the requirements for preservative penetration.
- (c) Better definition of the framework for treating, specifying and using conforming products.
- (d) A new system for verifying the key characteristics of conforming products.
- (e) Revised presentation and information content to ensure efficient application of each Part.
- (f) Some modifications and additions to the treatment specifications and test methods.
- (g) A reorganization of the test methods including removal of those no longer in common use.

The terms “normative” and “informative” are used in Standards to define the application of the appendices to which they apply. A “normative” appendix is an integral part of a Standard, whereas an “informative” appendix is for information and guidance only.

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Australian/New Zealand Standard

Preservative-treated wood-based products

Part 1: Products and treatment

Section 1 Scope and general

1.1 Scope

This Standard specifies requirements for preservative-treated wood-based products that require protection against decay, insect or marine borer attack.

NOTE 1 [Appendix A](#) provides information on deterioration agents that are relevant to the application of this Standard.

NOTE 2 [Appendix B](#) provides information on natural durability ratings, wood types and wood-based product durability.

1.2 Application

Preservative-treated wood-based products meeting the requirements of this Standard are intended to be suitable for use in Australia and New Zealand in accordance with the provisions of the relevant design and product standards and specifications in each country.

The preservatives referred to in this Standard are intended for application only in approved industrial treatment plants as defined in AS/NZS 2843.1 or in purpose-built engineered and reconstituted wood product production facilities.

NOTE For preservative treatment to be used only in New Zealand, other than as provided for in [Clause 2.3](#), refer to NZS 3602 and NZS 3640.

1.3 Normative references

The following documents are referenced in the text in such a way that some or all of their content constitutes requirements of this document:

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 3530, *Solvents — Mineral turpentine and white spirit*

AS 5604, *Timber — Natural durability ratings*

AS/NZS 1604.2, *Preservative-treated wood products, Part 2: Verification requirements*

AS/NZS 1604.3, *Preservative-treated wood products, Part 3: Test methods*

AS/NZS 2843.1, *Timber preservation plants, Part 1: Timber preservation plant site design*

AS/NZS 4491, *Timber — Glossary of terms in timber-related standards*

ASTM D 1699, *Standard for Oil-Borne Preservatives*

National Construction Code (NCC)

New Zealand Building Code (NZBC)

1.4 Terms and definitions

For the purpose of this Standard, the definitions given in AS/NZS 4491 and those below apply. Where the definitions in this Standard differ from those given in AS/NZS 4491, those below apply.