

Australian/New Zealand Standard™

**Methods for sampling and analysing
timber preservatives and preservative-
treated timber**

**Part 2: Determination of preservative
penetration by spot test**



AS/NZS 1605.2:2018

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 22 December 2017 and by the New Zealand Standards Approval Board on 5 March 2018. This Standard was published on 22 March 2018.

The following are represented on Committee TM-012:

Australian and New Zealand Timber Preservative Manufacturers Association
Australian Forest Products Association
Australian Pesticides and Veterinary Medicines Authority
Australian Timber Flooring Association
Australian Timber Importers Federation
Building Research Association of New Zealand
Department of Agriculture, Fisheries and Forestry, Qld
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, New Zealand
NATSPEC
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New Zealand Timber Preservation Council
New Zealand Wood Processors Association
Responsible Care New Zealand
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This Standard was issued in draft form for comment as DR AS/NZS 1605.2:2017.

Australian/New Zealand Standard™

Methods for sampling and analysing timber preservatives and preservative- treated timber

Part 2: Determination of preservative penetration by spot test

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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/NZS 1605.2:2006.

The objective of this Standard is to set out a series of methods for sampling and analysing timber preservatives and preservative-treated timber.

This objective of this revision is to—

- (a) introduce a method for determination of zinc penetration in timber treated with zinc-containing preservatives; and
- (b) introduce the PAN indicator for spot testing of copper in timber treated with copper-containing preservatives.

This Standard is part of a series of Standards that cover the sampling and analysing of timber preservatives and preservative-treated timber as follows:

AS/NZS

- 1605 Methods for sampling and analysing timber preservatives and preservative-treated timber
- 1605.1 Part 1: General requirements, sampling, and determination of sapwood and heartwood presence
- 1605.2 Part 2: Determination of preservative penetration by spot tests (this Standard)
- 1605.3 Part 3: Analysis methods for determination of preservative retention
- 1605.4 Part 4: Analysis methods for determination of preservative solution concentration

This Standard is intended to be read in conjunction with AS/NZS 1605.1 and the AS/NZS 1604 series, NZS 3640 or the relevant Standard to which timber is claimed to have been treated. The preservatives incorporated in the AS/NZS 1604 series are required to be accompanied by analytical methods for their determination, which are incorporated in the AS/NZS 1605 series.

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Australian/New Zealand Standard**Methods for sampling and analysing timber preservatives and preservative-treated timber****Part 2: Determination of preservative penetration by spot test**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out the method for determining the penetration of preservative into preservative-treated wood products. It deals with the preparation of material for testing and the methods for determining the penetration of creosote, boron, copper in copper-based preservatives, pentachlorophenol, tin, zinc and fluorine.

1.2 APPLICATION

This Standard should be read in conjunction with—

- (a) the AS/NZS 1604 series, NZS 3640 or the relevant Standard to which timber is claimed to have been treated; and
- (b) AS/NZS 1605.1.

Methods for sampling and analysing timber preservatives and preservative-treated timber are categorized into the following parts of the AS/NZS 1605 series, according to the general nature of the tests:

- (i) Sampling preservative liquids and preservative-treated timber Part 1.
- (ii) Determination of the presence of sapwood and heartwood Part 1.
- (iii) Determination of preservative penetration by spot tests..... Part 2.
- (iv) Analysis of preservative retention..... Part 3.
- (v) Analysis of preservative solution concentration Part 4.

1.3 REFERENCED AND RELATED DOCUMENTS**1.3.1 Referenced documents**

The following documents are referred to in this Standard:

AS/NZS

1604	Specification for preservative treatment (all parts)
1605	Methods for sampling and analysing timber preservatives and preservative-treated timber
1605.1	Part 1: General requirements, sampling, and determination of sapwood and heartwood presence
1605.3	Part 3: Analysis methods for determination of preservative retention
1605.4	Part 4: Analysis methods for determination of preservative solution concentration
4491	Timber—Glossary of terms in timber-related Standards