

Australian/New Zealand Standard™

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

**Part 1: General requirements, sampling,  
and determination of sapwood and  
heartwood presence**



## **AS/NZS 1605.1:2018**

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.

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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  
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*This Standard was issued in draft form for comment as DR AS/NZS 1605.1:2017.*

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# Australian/New Zealand Standard™

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

### Part 1: General requirements, sampling, and determination of sapwood and heartwood presence

Originated in Australia as AS 1605—1974.  
AS 1605—1974 revised and designated AS/NZS 1605:1998.  
AS/NZS 1605:2000 revised and redesignated, in part, AS/NZS 1605.1:2006.  
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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 1605.1:2006.

The objective of this Standard is to set out a series of methods for sampling and analysing timber preservatives and preservative-treated timber. This revision incorporates new spot testing and analytical methods, as detailed in the subsequent parts of this series. The series is 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 (this Standard)
- 1605.2 Part 2: Determination of preservative penetration by spot tests
- 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 the other parts of this series and with the AS/NZS 1604 series, NZS 3640 or the relevant Standard to which the 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. Test results should be achieved within the level of accuracy appropriate to the analytical procedure.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard****Methods for sampling and analysing timber preservatives and preservative-treated timber****Part 1: General requirements, sampling, and determination of sapwood and heartwood presence**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies general requirements for sampling and analysing timber preservatives and preservative-treated wood products, and sets out the method for determining the presence of sapwood and heartwood.

**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 the timber is claimed to have been treated; and
- (b) AS/NZS 1605.2, AS/NZS 1605.3 and AS/NZS 1605.4.

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 DOCUMENTS**

The following documents are referred to in this Standard:

## AS

- |        |  |
|--------|--|
| 1199   | Sampling procedures for inspection by attributes   |
| 1199.1 | Part 1: Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection |
| 5604   | Timber—Natural durability ratings  |

## AS/NZS

- |      |  |
|------|--|
| 1604 | Specification for preservative treatment (all parts) |
|------|--|