

Australian/New Zealand Standard™

**Reconstituted wood-based panels—  
Methods of testing**

**Part 1: Base panels**



## **AS/NZS 4266.1:2017**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TM-011, Engineered Timber Products. It was approved on behalf of the Council of Standards Australia on 12 October 2017 and by the New Zealand Standards Approval Board on 1 November 2017.  
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The following are represented on Committee TM-011:

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Australian Forest Products Association  
Australian Timber Importers Federation  
Australian Wood Panels Association  
Building Research Association of New Zealand  
Engineered Wood Products Association of Australasia  
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# Australian/New Zealand Standard™

## Reconstituted wood-based panels— Methods of testing

### Part 1: Base panels

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-011, Engineered Timber Products.

This Standard supersedes the following methods from the AS/NZS 4266 series *Reconstituted wood-based panels—Methods of test*:

- Method 1: Sampling, cutting, and conditioning of test pieces (2004)
- Method 2: Dimensions, squareness, flatness and edge straightness of whole panel (2004)
- Method 3: Moisture content (2004)
- Method 4: Density (2004)
- Method 5: Modulus of elasticity in bending and bending strength (2004)
- Method 6: Tensile strength perpendicular to the plane of the panel (internal bond strength) (2004)
- Method 7: Surface soundness (2004)
- Method 8: Swelling in thickness after immersion in water (2004)
- Method 9: Thickness stability and glue bond quality (2003)
- Method 10: Wet bending strength after immersion in water at 70°C or boiling temperature (2004)
- Method 11: Moisture resistance under cyclic test conditions (2004)
- Method 12: Surface water absorption (2004)
- Method 13: Resistance to axial withdrawal of screws (2003)
- Method 14: Dimensional changes associated with changes in relative humidity (2004)
- Method 16: Formaldehyde emission—Desiccator method (2004)
- Method 34: Surface absorption
- Method 35: Dimensions of test pieces (2004)

The objectives of this revision are—

- (a) to update test methods for reconstituted wood-based panels after 10 years;
- (b) to consolidate many separate test method Standards into one document; and
- (c) to adopt ISO versions of test methods where appropriate.

This Standard covers methods of test for properties specified in the following Standards for reconstituted wood-based panels.

### AS/NZS

- 1859 Reconstituted wood-based panels—Specifications
  - 1859.1 Part 1: Particleboard
  - 1859.2 Part 2: Dry process fibreboard
  - 1859.4 Part 4: Wet process fibreboard
- 1860 Particleboard flooring
  - 1860.1 Part 1: Specifications

The terms ‘normative’ and ‘informative’ are used in a Standard 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 only for information and guidance.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard**  
**Reconstituted wood-based panels—Methods of testing****Part 1: Base panels**

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard covers methods of test for properties specified in the following standard for reconstituted wood-based panels:

## AS/NZS

- 1859 Reconstituted wood-based panels—Specifications
- 1859.1 Part 1: Particleboard
- 1859.2 Part 2: Dry process fibreboard
- 1859.4 Part 4: Wet process fibreboard

- 1860 Particleboard flooring
- 1860.1 Part 1: Specifications

## NOTES:

- 1 Test methods for AS/NZS 1859.3, Decorative overlaid wood panels, are covered in AS/NZS 4266.2.
- 2 Sampling specified in this Standard is suitable for production control.

**1.2 REFERENCED DOCUMENTS**

## AS/NZS

- 1859 Reconstituted wood-based panels—Specifications
- 1859.1 Part 1: Particleboard
- 1859.2 Part 2: Dry process fibreboard
- 1859.4 Part 4: Wet process fibreboard
- 1860 Particleboard flooring
- 1860.1 Part 1: Specifications

## ISO

- 835 Laboratory glassware—Graduated pipettes
- 1478 Tapping screws thread
- 6905 Wood-based panels—Determination of dimensional changes associated with changes in relative humidity
- 10987 Wood-based panels—Determination of moisture resistance under cyclic test conditions
- 27528 Wood-based panels—Determination of resistance to axial withdrawal of screws