

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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Australian Forest Products Association
Australian Timber Importers Federation
Australian Wood Panels Association
Building Research Association of New Zealand
Engineered Wood Products Association of Australasia
Forest and Wood Products Australia
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This Standard was issued in draft form for comment as DR AS/NZS 4266.1:2016.

Australian/New Zealand Standard™

Reconstituted wood-based panels— Methods of testing

Part 1: Base panels

Originated in Australia as part of AS O115—1968, AS 1859—1976, AS/NZS 4266.11:1995, AS/NZS 4266.13:1995, AS/NZS 4266.14:1995, AS/NZS 4266.16:1995, AS/NZS 4266.34(Int):2001 and AS/NZS 4266.35(Int):2001 and in New Zealand as part of NZS/BS 1142.1:1971 and NZS/BS 1142:1989.

Previous edition AS/NZS 4266.1:2004.

AS/NZS 4266.1:2004, AS/NZS 4266.2:2004, AS/NZS 4266.3:2004, AS/NZS 4266.4:2004, AS/NZS 4266.5:2004, AS/NZS 4266.6:2004, AS/NZS 4266.7:2004, AS/NZS 4266.8:2004, AS/NZS 4266.9:2003, AS/NZS 4266.10:2004, AS/NZS 4266.11:2004, AS/NZS 4266.12:2004, AS/NZS 4266.13:2003, AS/NZS 4266.14:2004, AS/NZS 4266.16:2004, AS/NZS 4266.34:2004 and AS/NZS 4266.35:2004 jointly revised and designated as AS/NZS 4266.1:2017.

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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 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

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
- 16985 Wood-based panels—Determination of dimensional changes associated with changes in relative humidity
- 16987 Wood-based panels—Determination of moisture resistance under cyclic test conditions
- 27528 Wood-based panels—Determination of resistance to axial withdrawal of screws