

AS 1859.1:2017
(Incorporating Amendment No. 1)



STANDARDS
Australia



Reconstituted wood-based panels — Specifications

Part 1: Particleboard

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AS 1859.1:2017

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- Australian Building Codes Board
- 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
- Furntech-AFRDI
- Glued Laminated Timber Association of Australia
- Master Builders Australia
- New Zealand Plywood Manufacturers Association
- New Zealand Timber Industry Federation
- Timber Design Society
- University of Melbourne
- Wood Processors and Manufacturers Association of New Zealand

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Reconstituted wood-based panels — Specifications

Part 1: Particleboard

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Preface

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-011, Engineered Timber Products, to supersede AS/NZS 1859.1:2004.

A1 This Standard incorporates Amendment No. 1 (Month 2021). The start and end of changes introduced by the Amendment are indicated in the text by tags including the amendment number 1. **A1**

A1 Amendment No. 1 to this Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee TM-011, Engineered Timber Products. As a consequence of Amendment No. 1, which is published as an Australian-only amendment, this Standard will be redesignated from AS/NZS 1859.1 to AS 1859.1. **A1**

The objective of this Standard is to specify performance requirements for the manufacture and application of particleboard.

This Standard is Part 1 of the AS/NZS 1859 series, dealing with reconstituted wood-based panel products, as follows:

A1 AS 1859.1 **A1**, Reconstituted wood-based panels—Specifications, Part 1: Particleboard (this Standard)

AS/NZS 1859.2, Reconstituted wood-based panels—Specifications, Part 2: Dry process fibreboard

AS/NZS 1859.3, Reconstituted wood-based panels—Specifications, Part 3: Decorative overlaid wood panels

AS/NZS 1859.4, Reconstituted wood-based panels—Specifications, Part 4: Wet process fibreboard

Requirements for particleboard flooring are specified in AS/NZS 1860 as follows:

AS/NZS 1860.1, Particleboard flooring, Part 1: Specifications

AS 1860.2, Particleboard flooring, Part 2: Installation

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

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Reconstituted wood-based panels — Specifications

Part 1: Particleboard

1 Scope

1.1 This Standard specifies the product requirements for particleboard, for use under three service conditions—

- (a) dry (STD);
- (b) moisture resistant (MR); and
- (c) and high performance (HP),

and as classified in [Clause 5](#).

It does not cover requirements for particleboard flooring, see Preface. **1.2**

2 Application

The requirements specified in this Standard relate to product properties and are for the purpose of quality assessment.

3 Referenced documents

The following documents are referred to in this Standard:

AS 4707, *Chain of custody for certified wood and forest products*

AS/NZS 4063.1, *Characterization of structural timber, Part 1: Test methods*

AS/NZS 4063.2, *Characterization of structural timber, Part 2: Determination of characteristic values*

AS/NZS 4266.1, *Reconstituted wood-based panels—Methods of testing, Part 1: Base panels*

ISO 3340, *Fibre building boards — Determination of sand content*

4 Definitions

For the purpose of this Standard, the definitions below apply.

4.1

dry condition

conditions characterized by a moisture content in the materials corresponding to those typically found in a well-ventilated temperate environment (temperatures generally less than 25°C and a relative humidity of the surrounding air exceeding 65% only for a few weeks per year)

4.101

high performance particleboard

particleboard suitable for use in structural or loadbearing conditions, which may include humid conditions **4.1**