

Reconstituted wood-based panels—Specifications

Part 1: Particleboard

Amendment No. 1

Revised text amendment

Publishing and Approval Dates

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Summary

This amendment applies to the following elements:

- Front cover
- Preface
- Clauses 1, 4.101 (new), 5, 7.1, 7.2, 7.3, 7.101 (new), 10
- Table 101 (new)

Amendment details

AS/NZS 1859.1:2017 is amended as follows. The amendments should be inserted in the locations as instructed.

Element	Instruction/New text
Front cover	Top right hand corner, <i>delete</i> “AS/NZS 1859.1:2017” and <i>replace</i> with “AS 1859.1:2017” and in all other instances in the document.
Preface	After first paragraph, <i>add</i> the following: 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.
Cl 1	<i>Delete</i> text and <i>replace</i> with the following: 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.
Cl 4.101 (new)	After Clause 4.1, <i>add</i> the following: 4.101 High performance particleboard Particleboard suitable for use in structural or loadbearing conditions, which may include humid conditions.
Cl 5	After Item (b), <i>add</i> the following:

- Element** **Instruction/New text**
- 1 (c) High performance particleboard (HP) is intended for use in loadbearing applications in dry and humid conditions, or in continuously humid conditions such as tropical climates, or in interior conditions where occasional wetting followed by drying may occur.
- 2 After Note 2, *add* the following:
- 3 For HP particleboard, the use in structural load bearing applications should be in accordance with the manufacturer's specifications and limitations for use.
- CI 7.1** *Delete* text and *replace* with the following:
 Clauses 7.5, 7.6 and 7.101 specify requirements, in addition to those specified in Clause 6, for STD and MR particleboards.
 The requirements given in Tables 3, 4 and 101 and determined by the relevant test methods listed in these tables, are intended for use in quality assessment. The requirements shall not be used in structural design. Where particleboard is to be used in structural applications, characteristic design values shall be determined from structural testing in accordance with AS/NZS 4063, experimental test results or history of use to validate performance under the proposed conditions.
- CI 7.2** *Delete* text and *replace* with the following:
 The requirements in Tables 3, 4 and 101 are the lower specification limits for the following properties:
 (a) Bending strength (MOR).
 (b) Internal bond strength.
 (c) Wet bending strength.
 (d) Internal bond strength after cyclic test.
 The 5-percentile values, based on the mean values for individual panels and calculated in accordance with AS/NZS 4266.1:2017 Clause 1.7 (as referenced in Clause 9), shall be equal to or greater than the lower specification limits in Tables 3, 4 and 101.
 The requirements in Tables 3, 4 and 101 are lower specification values for modulus of elasticity (MOE) based on mean values. A 5-percentile calculation is not required for MOE
- CI 7.3** *Delete* text and *replace* with the following:
 The requirements in Tables 3, 4 and 101 are the upper specification limits for the following properties:
 (a) Thickness swelling.
 (b) Thickness swelling after cyclic test.
 The 95-percentile values, based on the mean values for individual panels and calculated in accordance with AS/NZS 4266.1:2017 Clause 1.7 (as referenced in Clause 9), shall be equal to or less than the upper specification limits in Tables 3, 4 and 101.
- CI 7.101 (new)** After Clause 7.6, *add* the following:
7.101 Specific requirements for high performance particleboards
 HP particleboards shall conform with the requirements given in Table 101.
- Tbl 101 (new)** After Clause 7.101, *add* the following:

TABLE 101 REQUIREMENTS FOR HP PARTICLEBOARD							
Property	Test method AS/NZS 4266.1:2017	Unit	Nominal thickness range				
			mm				
			≤ 8	> 8 to 12	> 12 to 22	> 22 to 33	> 33
Bending strength (MOR)	Section 7	MPa	20.0	18.0	16.0	15.0	14.0