

Australian/New Zealand Standard™

Plywood and blockboard for interior use



AS/NZS 2270:2006

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TM-008, Plywood Timber Products. It was approved on behalf of the Council of Standards Australia on 16 October 2006 and on behalf of the Council of Standards New Zealand on 20 October 2006.

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The following are represented on Committee TM-008:

Australian Building Codes Board
Engineered Wood Products Association of Australasia
Engineers Australia
Forests NSW
New Zealand Plywood Manufacturers Association
Scion
Timber Development Association (NSW)

Additional Interests:

Mr Kevin Lyngcoln

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This Standard was issued in draft form for comment as DR 06375.

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RECONFIRMATION
OF
AS/NZS 2270:2006
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Technical Committee TM-011 has reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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Australian Forest Products Association
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New Zealand Plywood Manufacturers Association
New Zealand Timber Industry Federation
Timber Design Society
Wood Processors & Manufacturers Association of New Zealand

NOTES

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-008, Plywood Timber Products, to supersede AS/NZS 2270:1999.

This Standard incorporates Amendment No. 1 (October 2007). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide minimum performance requirements and specifications for appearance and non-appearance grades of plywood and blockboard acceptable for use in fully protected interior applications in Australia and New Zealand. It describes the basic interior plywood and blockboard product. Particular end uses may require additional processing, immunization or surface finishing.

The objective of this revision is to update the requirements of the Standard to meet the ongoing changes in the forest resources and marketplace expectation. This is reflected in the addition of non-appearance grades of plywood and blockboard for interior use to the Standard as detailed in Clause 1.5. Additionally, the revision includes defined formaldehyde emission classes for the first time.

The plywood may be of hardwood and/or softwood veneer. The quality of veneer is judged in the finished panel.

Two bond types are specified in this Standard, i.e., types C and D, which are suitable for fully protected interior exposure as defined in AS 2754.1. Adhesives shall be of the type specified in AS 2754.1 or of equivalent proven durability provided they pass the requirements of the types C and D bond tests specified in AS/NZS 2098.2.

NOTE: Some polyurethane and isocyanate adhesives may have equivalent durability for interior non-structural applications.

Four formaldehyde emission classes E₀, E₁, E₂, and E₃ are included.

Five veneer qualities, i.e., A, S, B, C and D are prescribed. Veneer qualities A, S and B are suitable for use in plywood and blockboard face veneers intended for use in aesthetic applications while veneer qualities C and D are suitable for veneers intended for non-aesthetic applications and back veneers, as follows:

- (a) *Plywood and blockboard intended for aesthetic applications:*
 - (i) *Face veneer qualities:*
 - (A) *Quality A*—a high quality appearance grade, suitable for clear finishing.
 - (B) *Quality S*—an appearance grade that permits natural characteristics as a decorative feature.
 - (C) *Quality B*—an appearance grade suitable for high quality paint finishing.
 - (ii) *Back veneer qualities:*
 - (A) *Quality C*—a non-appearance grade with a solid surface
 - (B) *Quality D*—a non-appearance grade with permitted open imperfections
- (b) *Plywood and blockboard intended for non-aesthetic applications—Face and Back veneer qualities:*
 - (i) *Quality C*—a non-appearance grade with a solid surface
 - (ii) *Quality D*—a non-appearance grade with permitted open imperfections

The grade of the plywood is determined by the quality of the face and back veneers.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of the Standard whereas an 'informative' appendix is only for information and guidance.

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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for the manufacture, grading and finishing of plywood and blockboard used in non-structural interior applications where the product is fully protected from the weather, or wet or damp conditions. It also specifies veneer and core strip qualities, bond quality, joints, panel construction, dimensional tolerances, moisture content, finishing and branding.

Two bond types are specified, i.e., types C and D, which are suitable for interior applications only.

NOTES:

- 1 Exposure conditions are defined in AS 2754.1.
- 2 Requirements for the Type C and D bond durability tests are specified in AS/NZS 2098.2.
- 3 Appendix A provides the information to be supplied with inquiries and orders.

1.2 APPLICATION

The specification for any grade of plywood or blockboard for interior use shall consist of the general requirements given in this Section together with the relevant veneer requirements of Section 2 and the general manufacturing requirements of Section 3.

1.3 REFERENCED DOCUMENTS

AS

- 1604 Specification for preservative treatment
 1604.1 Part 1: Sawn and round timber
- 2754 Adhesives for timber and timber products
 2754.1 Part 1: Adhesives for plywood manufacture

AS/NZS

- 1080 Timber—Methods of test
 1080.1 Method 1: Moisture content
- 1604 Specification for preservative treatment
 1604.3 Part 3: Plywood
- 2098 Methods of test for veneer and plywood
 2098.1 Method 1: Moisture content of veneer and plywood
 2098.2 Method 2: Bond quality of plywood (chisel test)
 2098.3 Method 3: Bond quality and strength of scarf joints in plywood
 2098.4 Method 4: Measurement of dimensions for sheets of veneer and plywood
 2098.11 Method 11: Determination of formaldehyde emissions for plywood

- 4491 Timber—Glossary of terms in timber related Standards

NZ/MP

- 3640 Specification of the minimum requirements of the NZ Timber Preservation Council Inc.