

Australian/New Zealand Standard™

Plywood—Marine



AS/NZS 2272:2006

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:

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This Standard was issued in draft form for comment as DR 06376.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

RECONFIRMATION

OF
AS/NZS 2272:2006
Plywood—Marine

RECONFIRMATION NOTICE

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
Australian Timber Importers Federation
Australian Wood Panels Association
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Engineered Wood Products Association of Australasia
Forest and Wood Products Australia
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Master Builders Australia
Monash University
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 2272:1996.

This Standard specifies requirements for the manufacture, grading and finishing of plywood intended for marine use.

This revision addresses the significant changes in resource availability and marketplace requirements since the 1996 revision, resulting in the inclusion of an additional face-veneer quality for marine plywood that is to be overlaid.

Two face veneer Qualities A and O are prescribed. Quality A veneer is to be specified where a high quality clear finish is required. Quality O veneer is designed for marine plywood that is to be overlaid with fibreglass or other overlays or painted with a pigmented paint.

Veneer quality A in this Standard matches veneer quality A in AS/NZS 2269:2004, *Plywood—Structural*.

Four formaldehyde emission classes E₀, E₁, E₂ and E₃ are included. Unless otherwise branded, marine plywood has been assigned a minimum stress grade of F14.

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 a Standard, whereas an ‘informative’ appendix is only for information and guidance.

CONTENTS

	<i>Page</i>
FOREWORD.....	4
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	5
1.2 APPLICATION	5
1.3 REFERENCED DOCUMENTS	5
1.4 DEFINITIONS	6
1.5 GRADE OF MARINE PLYWOOD.....	6
1.6 SPECIES OF TIMBER.....	6
1.7 DIMENSIONS AND SHAPE	6
1.8 MOISTURE.....	7
1.9 FINISH.....	7
1.10 JOINTS IN PANELS.....	7
1.11 IMMUNIZATION AND CHEMICAL TREATMENTS.....	8
1.12 FORMALDEHYDE EMISSION CLASS.....	8
1.13 BRANDING	8
SECTION 2 REQUIREMENTS FOR VENEER	
2.1 GENERAL REQUIREMENTS FOR ALL VENEERS	10
2.2 QUALITY A VENEER	10
2.3 QUALITY O VENEER	11
2.4 CORE QUALITY VENEER.....	12
SECTION 3 MANUFACTURING REQUIREMENT	
3.1 JOINTS IN VENEERS	13
3.2 JOINTS THROUGH THE FULL THICKNESS OF PLYWOOD SHEETS.....	13
3.3 BONDING BETWEEN PLYS.....	13
3.4 ASSEMBLY OF PLYWOOD.....	14
3.5 STORAGE AND HANDLING.....	14
APPENDICES	
A PERMISSIBLE TIMBER SPECIES	15
B PERFORMANCE REQUIREMENTS FOR ACCEPTANCE OF SPECIES NOT LISTED AS PERMISSIBLE IN APPENDIX A	16
C MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD	18
D INFORMATION TO BE SUPPLIED WITH INQUIRIES AND ORDERS	19
E STORAGE AND HANDLING OF MARINE PLYWOOD	20

FOREWORD

The decay hazard to which marine plywood is subjected varies greatly with the service conditions encountered. In tropical service or in high humidity conditions, the decay hazard is high and preservative treatment in accordance with AS/NZS 1604.3 is required. In situations where water entry into the boat cannot be entirely prevented, the use of permeable coatings or the omission of paint on the dry side can ensure rapid drying out. If decay hazards are relatively low, these construction techniques combined with the use of a suitable brush-on preservative can give efficient protection.

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S E C T I O N 1 S C O P E A N D G E N E R A L

1.1 SCOPE

This Standard specifies requirements for the manufacture, grading and finishing of plywood intended for marine use. It describes the basic marine plywood product. Particular applications may require additional processing, preservative treatment or surface finishing.

This Standard also specifies species of timber, veneer qualities, bond quality, joints, veneer construction, moisture content, dimensions and tolerances, finishing, formaldehyde emissions and branding. A series of performance requirements relating to species, and a procedure for evaluating and admitting new species are included.

One bond type, Type A bond, is prescribed.

Two face veneer grades A and O have been specified. Quality A veneer is to be specified where a high quality clear finish is required and Quality O where the marine plywood product is to be overlaid with fibreglass or similar coatings or overlays, or painted with a pigmented paint or varnish.

1.2 APPLICATION

The species from which marine plywood is manufactured have low natural resistance to decay and it should be noted that although bonded with a durable Type A bond in accordance with AS 2754.1, this bond durability does not impart additional durability to the wood. Marine plywood that is exposed long term to wet or damp conditions or full-weather exposure shall be preservative treated in accordance with AS/NZS 1604.3.

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

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 1199 Sampling procedures for inspection by attributes
- 1199.0 Introduction to the ISO 2859 attribute sampling system
- 1199.1 Sampling schemes indexed by acceptance quality limit (AQL) for lot-by-lot inspection

- 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

- 1148 Timber—Nomenclature—Australian, New Zealand and imported species