

AS 2688—1984

Australian Standard[®]

Timber doors

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Door Manufacturers Association of Australia
Forest Products Association of Western Australia
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Timber doors

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PREFACE

This standard was prepared by the Association's Committee on Milled Timber Products and supersedes that part of AS 1908—1976 that dealt with doors as components of the doorsets specified in that standard.

In AS 1908—1976, a doorset was defined as the combination of a door and its hanging frame. However, this standard confines itself to specifying the construction of various types of doors.

The separation of doors and doorsets has become necessary to enable implementation of the SAA Certification Trade Mark Scheme (AS Mark) to doors.

Thus this standard applies to basic general purpose doors, i.e. materials and construction, but it does not apply to fire-resistant doors, hospital doors, special-purpose doors and doors that are higher or wider than the maximum given in Table 1.1. For these latter doors, the jointing systems and component sizes specified in Sections 3 to 10 may be insufficient to impart the necessary structural adequacy or room to fit the desired hardware.

Decorative planted mouldings, inlay, bolection, etc. are not specified, but may be used as required.

Criteria for flatness of doors and methods for its determination, based on ISO 6442, Door Leaves—Measurement of Defects of General Flatness, have been added, and requirements for lateral stiffness and puncture resistance have been extended to all doors except glazed doors and louvred doors which are exempt from the requirement for puncture resistance. The references to the nomenclature of Australian timbers and plywood and hardboard standards have been updated. The sizes of door components have been adjusted to take account of current usage.

In addition, a doorleaf that is 1020 mm wide is included to enable people with disabilities to turn into or out of narrow circulation spaces (see AS 1428, Code of Practice for Design Rules for Access by the Disabled).

Provision has been made for flush doors using interlocked nails as a core. An appendix has been included setting out information to be given with inquiries and orders for doors which highlights options allowed in the standard that require decisions on the part of the purchaser.

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Australian Standard
for
TIMBER DOORS

SECTION 1. SCOPE AND GENERAL REQUIREMENTS

1.1 SCOPE. This standard specifies requirements for timber doors of the types listed in Clause 1.2 and of sizes listed in Table 1.1.

NOTES:

1. This standard does not apply to doors of dimensions larger than those given in Table 1.1 and designers of larger doors should ensure structural adequacy.
2. Appendix E gives guidance on the information that should be supplied with enquiries and orders.

1.2 APPLICATION. Doors shall comply with the relevant requirements of Section 1, together with the specific requirements of Sections 2 to 10 as appropriate to the type of door, as follows:

- (a) Materials Section 2.
- (b) Flush doors—
- Cellular core Section 3.
- Intermediate rail core Section 4.
- Blockboard core Section 5.
- Particleboard core Section 6.
- (c) Joinery doors—
- Ledged and braced Section 7.
- Framed and ledged Section 8.
- Panelled Section 9.
- Louvred Section 10.

1.3 REFERENCED DOCUMENTS. The following standards are referred to in this standard:

- AS 1080 Methods of Test for Timber
Part 1—Moisture Content
- AS 1148 Nomenclature of Commercial Timbers
Imported into Australia
- AS 1288 SAA Glass Installation Code
Part 1—Selection of Glass
Part 2—Glazing Techniques
- AS 1489 Sawn Boards from Radiata Pine
- AS 1494 Lining and Panelling Boards Milled from
Radiata Pine
- AS 1604 Preservative Treatment for Sawn Timber,
Veneer and Plywood
- AS 1742 Lining Milled from Australian Rainforest
Timber
- AS 1703 Lining Milled from South-eastern Australian
Hardwoods
- AS 1707 Lining Milled from North-eastern Australian
Eucalypt Hardwoods
- AS 1728 Types of Timber Surfaces
- AS 1781 Sawn Boards from Australian-grown
Conifers (Softwoods) (Excluding Radiata
Pine and Cypress Pine)

- AS 1783 Lining Boards Milled from Australian-grown
Conifers (Softwoods) (Excluding
Radiata Pine and Cypress Pine)
- AS 1859 Flat Pressed Particleboard
- AS 1909 Installation of Timber Doorsets
- AS 2082 Visually Stress-graded Hardwood for
Structural Purposes
- AS 2193 Methods for Calibration and Grading of
Force-measuring Systems of Testing
Machines
- AS 2270 Plywood and Blockboard for Interior Use
- AS 2271 Plywood and Blockboard for Exterior Use
- AS 2289 Glossary of Terms Used in the Plywood
Industry
- AS 2301 Wood Primer, Solvent Borne, Brushing
- AS 2440 Sawn Douglas Fir (Oregon) and Sawn
Western Hemlock (Canada Pine)
- AS 2448 Hardboard
- AS 2443 Nomenclature of Australian Timbers
- AS 2689 Timber Doorsets
- AS K88 Synthetic Resin Adhesives for Plywood
(Phenolic and Aminoplastic)
- AS O1 Glossary of Terms Used in Timber
Standards
- AS O34 Lining from Western Australian
Hardwoods
- AS O36 Timber Used in the Manufacture of Joinery
in Western Australia
- AS O94 Unseasoned Cypress Pine Milled Lining
- ISO 6442 Door Leaves—Measurement of Defects of
General Flatness

1.4 DEFINITIONS. The terms used in this standard shall be interpreted in accordance with AS O1 and with the following definitions:

1.4.1 Balanced construction—a construction of flush doors in which the facings on one side of the core are essentially equal in thickness, grain direction, properties and arrangement to those on the other side of the core. It is such that the forces induced by uniformly distributed changes in moisture content will not cause warpage.

1.4.2 Crossband—a veneer ply laid with the direction of the grain transverse to the length of the door.

1.4.3 Close-fitted—edges of adjacent timbers or veneers fitted in contact for their full length and width.

1.4.4 Flush door—a door having two plane faces which entirely cover and conceal its structure. Includes doors with intermediate rail, cellular, blockboard or particleboard cores.