

Australian Standard™

**Timber—Hardwood—Visually stress-
graded for structural purposes**

This Australian Standard was prepared by Committee TM/3, Timber Grading. It was approved on behalf of the Council of Standards Australia on 12 November 1999 and published on 7 March 2000.

The following interests are represented on Committee TM/3:

Australian Timber Importers Federation
CSIRO Building, Construction and Engineering
Curtin University of Technology
Forest and Forest Products Employment Skills Company
Housing Industry Association
Master Builders Australia
New Zealand Forest Research Institute
New Zealand Timber Industry Federation
New Zealand Timber Suppliers Group
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Australian Standard™

**Timber—Hardwood—Visually stress-
graded for structural purposes**

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PREFACE

This Standard was prepared by the Standards Australia/Standards New Zealand Committee TM/3, Timber Grading, to supersede AS 2082—1979, *Visually stress-graded hardwood for structural purposes*. This revision was undertaken in order to update some of the requirements and to correct some errors and anomalies, and is the result of a consensus among representatives on the Joint Committee that it be produced as an Australian Standard.

The objective of this Standard is to provide timber manufacturers, suppliers and users with requirements for visual stress grading of sawn hardwood which is intended for structural purposes.

A new stress grade designated A17 has been included. It has been established by an in-grade study of mixed seasoned *Eucalyptus delegatensis* and *E. regnans* sourced from Victorian native forests. Producers will need to refer to the stringent requirements for initial testing and continuous monitoring in the applicable Australian/New Zealand Standards in order to produce A17 grade material. Strength properties and verification requirements are given in AS 1720.1.

AS 2082 was first prepared in 1977 as an amalgamation of AS O81—1966, AS O135-1972, AS 1483—1973 and parts of AS O82—1965, AS O83—1963 and AS O84—1967. It drew together these grading rules which had been written for different timber groups such as Western Australian timbers (AS 1483, originally AS O7—1937) AS O82, AS O83 and AS O84 were revisions of grading rules for Eastern Australian timbers originating as Interim numbers 360, 361 and 362 published in 1952 and number 366 first published in 1963.

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.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

Australian Standard**Timber—Hardwood—Visually stress-graded for structural purposes**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies requirements for visually stress-graded sawn hardwood intended for structural purposes.

NOTES:

- 1 The coverage of hardwood species or species mixtures listed in this Standard does not imply their availability, or the availability of any particular grade of any species or species mixture.
- 2 This Standard may be used as a basis for certification of conformity under a product certification program.

1.2 APPLICATION

The specification of timber graded to this Standard shall consist of the requirements of this Section together with the relevant grade description given in Section 2.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- | | |
|--------|--|
| 1148 | Nomenclature of commercial timbers imported into |
| 1604 | Timber—Preservative-treated—Sawn and round |
| 1684 | National Timber Framing Code |
| 1720 | Timber structures |
| 1720.1 | Part 1: Design methods |
| 2543 | Nomenclature of Australian timbers |
| 2878 | Timbers—Classification into strength groups |

AS/NZS

- | | |
|----------|---|
| 1080 | Timber—Methods of test |
| 1080.1 | Method 1: Moisture content |
| 1080.2.1 | Method 2.1: Slope of grain by scribe |
| 1080.2.2 | Method 2.2: Slope of grain by reference to surface checks |
| 1080.2.3 | Method 2.3: Slope of grain by splintering |
| 4063 | Timber—Stress-graded—In-grade strength and stiffness evaluation |
| 4491 | Timber—Glossary of terms in timber related Standards |

1.4 TIMBER SPECIES AND STRESS GRADES**1.4.1 Species and species mixtures other than A17 grade**

A list of species and species mixtures, together with properties such as density and Lyctid susceptibility, is given by standard trade name in Appendix A. The standard trade names of species covered by this Standard shall be interpreted in accordance with AS 1148 or AS 2543, as appropriate.