

Australian Standard[®]

**Timber—Heavy structural products—
Visually graded**

Part 1: General requirements

STANDARDS
Australia



This Australian Standard® was prepared by Committee TM-003, Timber Grading. It was approved on behalf of the Council of Standards Australia on 30 November 2009. This Standard was published on 16 December 2009.

The following are represented on Committee TM-003:

- A3P
- Australian Timber Flooring Association
- BRANZ
- CSIRO Manufacturing, and Infrastructure Technology
- Forest and Wood Products Australia
- Forests New South Wales
- Frame and Truss Manufacturers Association Australia
- Master Builders Australia
- New Zealand Timber Industry Federation
- Tasmanian Timber Promotion Board
- Timber and Building Materials Association (NSW)
- Timber Queensland
- University of Technology, Sydney
- Wood Processors Association New Zealand

Additional Interests:

- Dr Geoff Boughton
-

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Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

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**Timber—Heavy structural products—
Visually graded**

Part 1: General requirements

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PREFACE

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee TM-003, Timber Grading, to supersede AS 3818.1—1998.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide producers and users of visually graded timber products with general requirements for the specific products covered by the other parts of this series.

The objectives of this revision are as follows:

- (a) To complete an overview of the AS 3818 series, with regard to the consistency and alignment between all Parts.
- (b) To include additional species in Table C1.
- (c) To change the format of this Standard from single to multiple Sections.

This Standard is Part 1 of the AS 3818 series, *Timber—Heavy structural products—Visually graded*, which is composed of the following parts:

AS

3818	Timber—Heavy structural products—Visually graded
3818.1	Part 1: General requirements (this Standard)
3818.2	Part 2: Railway track timbers
3818.3	Part 3: Piles
3818.4	Part 4: Cross-arms for overhead lines
3818.5	Part 5: Mine lift guides
3818.6	Part 6: Decking for wharves and bridges
3818.7	Part 7: Large section sawn hardwood engineering timbers
3818.8	Part 8: Stumps and sole plates
3818.11	Part 11: Utility pole (Revision of AS 2209—1994)

It is intended to produce further parts in this series as follows:

- Part 9: Natural round timbered hardwood corbels, girders and stringers
 Part 10: Building pole

Appendices have been included to give advice on—

- (a) a means for demonstrating compliance;
- (b) relative natural durability;
- (c) species, properties and uses;
- (d) definitions; and
- (e) measurement of characteristics.

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.

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STANDARDS AUSTRALIA

Australian Standard

Timber—Heavy structural products—Visually graded

Part 1: General requirements

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies the general requirements for visual grading of hardwood and softwood intended for the specific products for which grades are defined in the other parts of this series. These general requirements apply at the time of grading.

NOTES:

- 1 Guidance on means for demonstrating compliance with this Standard is given in Appendix A.
- 2 Information on the natural durability of timber species is given in Appendix B.

1.2 APPLICATION

The specification for any product shall consist of the general requirements given in this Standard together with the relevant product description given in the appropriate part of this series.

NOTE: To use this Standard for grading structural timber products, the procedure is as follows:

- (a) Part 1 gives the general requirements for all the products covered by this series of Standards.
- (b) Appendix C lists species appropriate for the visual grades given in the parts of this series.
- (c) For each product, one of the other parts of the series specifies product requirements including grade descriptions, tolerances, and similar. In some cases, stress grades have been given for use in structural design in accordance with AS 1720.1.

1.3 NORMATIVE REFERENCES

The following referenced documents are indispensable for the application of this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

AS

- | | |
|--------|--------------------------------------------------------------|
| 1604 | Specification for preservative treatment |
| 1604.1 | Part 1: Sawn and round timber |
| 1720 | Timber structures |
| 1720.1 | Part 1: Design methods |
| 1720.2 | Part 2: Timber properties |
| 3818 | Timber—Heavy structural products—Visually graded (all Parts) |

AS/NZS

- | | |
|--------|------------------------------------------------------|
| 1080 | Timber—Methods of test |
| 1080.1 | Part 1: Moisture content |
| 1080.2 | Part 2: Slope of grain |
| 2878 | Timber—Classification into strength groups |
| 4491 | Timber—Glossary of terms in timber related standards |