AS 3818.7—2006

Australian Standard™

Timber—Heavy structural products—Visually graded

Part 7: Large cross-section sawn hardwood engineering timbers

This Australian Standard was prepared by Committee TM-003, Timber Grading. It was approved on behalf of the Council of Standards Australia on 7 March 2006. This Standard was published on 30 March 2006.

The following are represented on Committee TM-003:

A3P
Australian Timber Importers Federation
CSIRO Manufacturing, and Infrastructure Technology
Curtin University of Technology
Forest and Forest Products Employment Skills Company
Forests NSW
Housing Industry Association
Master Builders Australia
New Zealand Timber Industry Federation
New Zealand Timber Suppliers Group
Scion
Tasmanian Timber Promotion Board
Timber Queensland
University of Technology, Sydney

This Standard was issued in draft form for comment as DR 05193.

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First published as AS 3818.7—2006.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

ISBN 0 7337 7343 5

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-003, Timber Grading. 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 large cross-section sawn hardwood engineering timbers with requirements for the visual grading and selection of species for such timbers intended for use in structures.

This Standard includes information drawn from AS O81—1966, *Engineering timbers from eastern and south-eastern Australian hardwoods*, which has already been withdrawn.

This is Part 7 of the AS 3818 series *Timber—Heavy structural products—Visually graded* composed of the following parts:

AS
3818 Timber—Heavy structural products—Visually graded
3818.1 Part 1: General requirements
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 cross-section sawn hardwood engineering timbers (this Standard)
3818.8 Part 8: Stumps and sole plates

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

Part 9: Natural round treated hardwood corbels, girders and stringers
Part 10: Building poles
Part 11: Poles for overhead lines

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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SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out the minimum requirements for visually graded large cross-section sawn hardwood engineering timbers greater than 0.016 m^2 in cross-section.

For structures using large section timber members, the sizes of members are calculated from the known or assumed loads on the members and dimensional requirements specified in the order.

1.2 APPLICATION

This Standard shall be used in conjunction with AS 3818.1 to specify sawn hardwood engineering timbers greater than 0.016 m^2 in cross-section. Species suitable for these products are listed in AS 3818.1.

NOTES:

1 A cross-section 200 mm × 80 mm has an area of 0.016 m^2.

2 Purchasing guidelines are given in Appendix A.

3 Stress grades are given in Appendix B for design (using AS 1720.1) of timbers graded to this Standard.

1.3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS	
1720	Timber structures
1720.1	Part 1: Design methods
3818	Timber—Heavy structural products—Visually graded
3818.1	Part 1: General requirements
5604	Timber—Natural durability ratings
AS/NZS	
2878	Timber—Classification into strength groups
4063	Timber—Stress-graded—In-grade strength and stiffness evaluation

1.4 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 3818.1 apply.

