

Australian/New Zealand Standard™

**Timber—Mechanically stress-graded for
structural purposes**



AS/NZS 1748:2006

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TM-003, Timber Grading. It was approved on behalf of the Council of Standards Australia on 12 December 2005 and on behalf of the Council of Standards New Zealand on 21 December 2005.

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The following are represented on Committee TM-003:

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Australian Timber Importers Federation

CSIRO Manufacturing, and Infrastructure Technology

Curtin University of Technology

Forest and Forest Products Employment Skills Company

Forests NSW

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Australian/New Zealand Standard™

Timber—Mechanically stress-graded for structural purposes

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-003, Timber Grading, to supersede AS 1748—1997.

The objective of this Standard is to provide suppliers and purchasers with mechanical property requirements, marking requirements and physical requirements for stress-graded timber.

Changes implemented in this edition include the following:

- (a) Definition for mechanically stress-graded timber (Clause 3.1) amended.
- (b) Definition for structural property requirements (Clause 5) amended.
- (d) Marking clause amended.
- (e) Referenced documents updated.
- (f) Commentary on marking amended.
- (g) Latest version of the informative Appendix on means of demonstrating compliance included.

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

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is for information and guidance only.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

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Timber—Mechanically stress-graded for structural purposes

1 SCOPE

This Standard specifies mechanical property requirements, marking requirements and physical requirements for mechanically stress-graded timber, at the time of dispatch from the producer.

NOTES:

- 1 This Standard may be used as a basis for certification of conformity under a product certification program.
- 2 Appendix A provides commentary.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 1604 Specification for preservative treatment
- 1604.1 Part 1: Sawn and round timber
- 1613 Timber—Colours for marking F-grades
- 1684 Residential timber-framed construction (all Parts)
- 1720 Timber structures
- 1720.1 Part 1: Design methods

AS/NZS

- 1080 Timber—Methods of test
- 1080.1 Method 1: Moisture content
- 4063 Timber—Stress-graded—In-grade strength and stiffness evaluation
- 4490 Timber—Stress-graded—Procedure for monitoring structural properties
- 4491 Timber—Glossary of terms in timber-related Standards

NZS

- 3603 Timber Structures Standard

3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS/NZS 4491 and those below apply. Where the definitions in this Standard differ from those given in AS/NZS 4491, for the purpose of this Standard those below apply.

3.1 Mechanically stress-graded timber

Timber that meets the product specifications of this Standard and has been non-destructively tested in bending by mechanical grading equipment and primarily sorted on the basis of local modulus of elasticity.