

Australian Standard™

**Timber—Heavy Structural Products—  
Visually graded**

**Part 3: Piles**



This Australian Standard was prepared by Committee TM-003, Timber Grading. It was approved on behalf of the Council of Standards Australia on 31 August 2001 and published on 25 October 2001.

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The following interests are represented on Committee TM-003:

Australian Timber Importers Association  
CSIRO—Building, Construction and Engineering  
Curtin University of Technology  
Forest and Forest Products Employment Skills  
Housing Industry Association  
Master Builders Australia  
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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-003, Timber Grading, to supersede SAA INT 365—1952 *Piles (Eastern Australian Hardwoods)*, reinstated 1985.

This Standard is the result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard.

The objective of this Standard is to provide producers and users of piles with requirements for the visual grading and selection of species for timbers intended for use as piling in marine applications (salt or brackish water) or in other than marine applications (land or freshwater).

Appendices have been included to give advice on—

- (a) information required for purchasing orders;
- (b) treatment levels;
- (c) visual ratings for end splits and barrel checks;
- (d) design properties; and
- (e) choice of species.

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.

## CONTENTS

	<i>Page</i>
<b>SECTION 1 SCOPE AND GENERAL</b>	
1.1 SCOPE.....	4
1.2 APPLICATION .....	4
1.3 REFERENCE DOCUMENTS .....	4
1.4 DEFINITIONS.....	5
1.5 MEASUREMENTS .....	5
1.6 TIMBER SPECIES .....	5
1.7 SIZE AND FORM OF PILE .....	6
<b>SECTION 2 HARDWOOD PILES INTENDED FOR USE AFTER FULL-LENGTH PRESERVATIVE TREATMENT</b>	
2.1 GRADE DESCRIPTIONS .....	7
2.2 UNSEASONED PILES.....	7
2.3 SEASONED PILES (25 percent moisture content, outer annulus, see Clause 1.4) .....	8
<b>SECTION 3 HARDWOOD PILES INTENDED FOR USE WITHOUT FULL-LENGTH PRESERVATIVE TREATMENT</b>	
3.1 GRADE DESCRIPTIONS .....	9
3.2 UNSEASONED PILES.....	9
3.3 SEASONED PILES (25 percent moisture content, outer annulus, see Clause 1.4) ....	10
<b>SECTION 4 SOFTWOOD PILES INTENDED FOR USE AFTER FULL-LENGTH PRESERVATIVE TREATMENT</b>	
4.1 GRADE DESCRIPTIONS .....	11
4.2 UNSEASONED PILES.....	11
4.3 SEASONED PILES (25 percent moisture content, outer annulus, see Clause 1.4) ....	12
<b>APPENDICES</b>	
A GUIDANCE FOR PURCHASERS .....	13
B APPROPRIATE PRESERVATIVE TREATMENT LEVELS FOR PILES .....	14
C LIST OF SPECIES AND PROPERTIES .....	15
D DESIGN PROPERTIES.....	20
E NUMERICAL RATINGS FOR END SPLITS AND BARREL CHECKS .....	21

## STANDARDS AUSTRALIA

## Australian Standard

## Timber—Heavy Structural Products—Visually graded

## Part 3: Piles

## SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard sets out the minimum requirements for visually graded timber piles.

## NOTES:

- 1 Purchasing guidelines are given in Appendix A.
- 2 Information on preservation is given in Appendix B.
- 3 Information on choice of pile species is given in Appendix C.

**1.2 APPLICATION**

The specification for hardwood piles or softwood piles shall consist of the general provisions given in AS 3818.1 together with the pile and grade description given in this Standard. A list of species and strength groups for piles is given in Appendix C. The stress grades applicable to the strength groups are given in Appendix D.

The design requirements for piling are given in AS 2159 and the timber properties in general are given in AS 1720.1.

Appendix B gives information on factors that effect choice of species, durability and the necessity for treatment (e.g. whether driving into soil, freshwater or saltwater).

**1.3 REFERENCE DOCUMENTS**

The following documents are referred to in this Standard:

## AS

1604	Timber—Preservative-treated—Sawn and round
1720	Timber structures
1720.1	Part 1: Design methods
1720.2	Part 2: Timber properties
2159	Piling—Design and installation
3818	Timber—Heavy structural products—Visually graded
3818.1	Part 1: General requirements

## AS/NZS

1080	Timber—Methods of test
1080.1	Method 1: Moisture content
1148	Timber—Nomenclature—Australian, New Zealand and imported species
2878	Timber—Classification into strength groups