

Australian Standard™

Timber flooring

Part 2: Sanding and finishing



This Australian Standard was prepared by Committee TM-007, Sawn, milled and speciality timber products. It was approved on behalf of the Council of Standards Australia on 12 August 2005.
This Standard was published on 27 October 2005.

The following are represented on Committee TM-007:

Australian Paint Manufacturers' Federation
Construction Information Systems Australia
Department of Primary Industries and Fisheries Queensland
Forest Products Commission (WA)
Forests NSW
Furntech
Housing Industry Association
Master Builders Australia
New Zealand Timber Industry Federation
New Zealand Timber Suppliers Group
Tasmania Timber Promotion Board
Timber Development Association, NSW
Timber Promotion Council
Timber Queensland

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Standards can be found by visiting the Standards Web Shop at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, the printed Catalogue provides information current at 1 January each year, and the monthly magazine, *The Global Standard*, has a full listing of revisions and amendments published each month.

Australian Standards™ and other products and services developed by Standards Australia are published and distributed under contract by SAI Global, which operates the Standards Web Shop.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to the Chief Executive, Standards Australia, GPO Box 476, Sydney, NSW 2001.

Australian Standard™

Timber flooring

Part 2: Sanding and finishing

Originally as part of AS CA39—1963, and AS CA 39 Supp 1—1974.
Revised and redesignated as AS 4786.2—2005.

COPYRIGHT

© Standards Australia

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

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

ISBN 0 7337 6956 X

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM-007, Sawn, Milled and Speciality Timber Products as a revision of the withdrawn Standards AS CA39—1963, *Sanding of interior wooden floors* and AS CA39 Supp 1—1974, *Sanding of interior wooden floors (Metric units)*.

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 specifiers, sanders and finishers of timber flooring with requirements for the sanding and finishing of timber flooring.

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.

Notes to the text contain information and guidance and are not considered to be an integral part of the Standard.

FOREWORD

Sanding and finishing of floors is a specialist job using specifically designed equipment. It is often carried out towards the end of a building contract. Therefore, the floor should be protected from damage between its installation and the sanding and finishing operation. Construction activities during this period may cause irreversible damage to the floor surface such as staining from spillage (e.g., water or chemicals such as cleaning fluids) or indentations from dropped tools.

Care is needed to ensure that the scheduled time for carrying out the operation of sanding and finishing of a timber floor is appropriate to its moisture content and the equilibrium moisture content expected in the room. Flexibility may be needed in the schedule to allow for unusually damp or dry weather to pass before sanding and finishing.

Where air conditioning is to be installed it may be preferable to have it in working order before procedures are carried out so that the appropriate equilibrium moisture content can be achieved to match conditions during the life of the floor.

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE	5
1.2 REFERENCED DOCUMENTS	5
1.3 DEFINITIONS	5
SECTION 2 SANDING OF TIMBER FLOORS	
2.1 GENERAL	8
2.2 PREPARATION	8
2.3 BASIC SANDING	9
2.4 STOPPING	10
2.5 FILLING	10
2.6 FINISH SANDING	10
2.7 CLEANING	11
SECTION 3 APPLICATION OF COATING SYSTEM	
3.1 GENERAL	12
3.2 PREPARATION	12
3.3 STAINS	12
3.4 FINISHING	12
APPENDICES	
A GUIDELINES FOR THE SPECIFICATION OF SANDING AND FINISHING	13
B ASSESSMENT OF QUALITY OF FINISH	17
C PROPERTIES OF COATING SYSTEMS	19

STANDARDS AUSTRALIA

Australian Standard Timber flooring

Part 2: Sanding and finishing

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard gives requirements for the sanding and finishing of both new and existing timber floors including parquet and strip flooring.

NOTES:

- 1 Guidelines for preparing specifications and information on factors affecting finishing and on maintenance are given in Appendix A.
- 2 The quality of finish of a timber floor will depend on the attention to detail and level of experience of the tradesman performing the work.
- 3 Sanding and finishing should be carried out in one smooth operation as, after sanding, with exposure to the atmosphere, the timber surface can be irrevocably changed.
- 4 Extra care is necessary when sanding and finishing flooring laid directly on heated concrete sub-floors (see Appendix A).

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS/NZS

- | | |
|--------|---|
| 4491 | Timber—Glossary of terms in timber-related standards |
| 4518 | Bonded abrasives—Determination and designation of grain size distribution |
| 4518.1 | Macrogrits F4 to F200 |

1.3 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 in AS/NZS 4491, for the purpose of this Standard, those given below apply.

1.3.1 Basic sanding

A set of sanding procedures intended to result in a surface with an even plane free from irregularities and suitable for finish sanding or for the following purposes:

- (a) For timber sub-floors suitable for parquet, overlay strip flooring or other surface coverings.
- (b) For timber flooring in preparation for finish sanding.

1.3.2 Chatter marks

Ridges on the surface of milled timber caused by the faulty operation of a planing machine.