

AS 3999:2015
(Incorporating Amendment No. 1)

AS 3999:2015



Bulk thermal insulation—Installation



This Australian Standard® was prepared by Committee BD-058, Thermal Insulation. It was approved on behalf of the Council of Standards Australia on 18 May 2015. This Standard was published on 23 July 2015.

The following are represented on Committee BD-058:

- Aluminium Foil Insulation Association
 - Australasian Fire and Emergency Service Authorities Council
 - Australian Building Codes Board
 - Australian Cellulose Insulation Manufacturers Association
 - Australian Professional Thermography Association
 - Community Energy Network
 - Consumers Federation of Australia
 - Council of Textile and Fashion Industries of Australia
 - CSIRO Material Science and Engineering
 - Curtin University of Technology
 - Electrical Regulatory Authorities Council
 - Housing Industry Association
 - Insulation Australasia
 - Insulation Council of Australia and New Zealand
 - Master Builders Australia
 - Plastics and Chemicals Industries Association
 - Pliable Membranes Association of Australia
 - Recessed Luminaire Enclosure Association of Australia
 - The Insulation Contractors Association of Australia, NSW
 - Thermal Insulation Contractors Association of Australia
-

This Standard was issued in draft form for comment as DR AS 3999.

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.

Keeping Standards up-to-date

Australian Standards® are living documents that 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Standards may also be withdrawn.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 that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting **www.standards.org.au**

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at **mail@standards.org.au**, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

AS 3999:2015
(Incorporating Amendment No. 1)

Australian Standard[®]

Bulk thermal insulation—Installation

Originated as AS 3999—1992.
Second edition 2015.
Reissued incorporating Amendment No. 1 (June 2020).

COPYRIGHT

© Standards Australia Limited

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, unless otherwise permitted under the Copyright Act 1968.

ISBN 978 1 76035 062 8

PREFACE

This Standard was prepared by the Standards Australia Committee BD-058, Thermal Insulation, to supersede AS 3999—1992, *Thermal insulation of dwellings—Bulk insulation—Installation requirements*.

This Standard incorporates Amendment No. 1 (June 2020). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

This Standard is an informative secondary reference in the Building Code of Australia by means of a guidance reference within AS/NZS 4859.1:2002, *Materials for the insulation of buildings*, Part 1: *General criteria and technical provisions*.

This Standard is primarily for domestic dwellings but many of the installation methods detailed could be applicable to other forms of construction. This Standard is intended to be used by the installers of bulk thermal insulation. In this edition, a new normative requirement has been introduced for the provision of an installer's statement that details the insulation type and materials used in the completed installation.

The terms 'normative' and 'informative' have been used in this standard to define 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.

<p><i>This Standard incorporates a commentary on some of the clauses. The commentary directly follows the relevant clause, is designated by 'C' preceding the clause number and is printed in italics in a box. The commentary is for information and guidance.</i></p>

CONTENTS

	<i>Page</i>
FOREWORD.....	5
 SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	6
1.2 APPLICATION	6
1.3 NORMATIVE REFERENCES	7
1.4 DEFINITIONS.....	8
1.5 ANCILLARY MATERIALS	11
 SECTION 2 PRE-INSTALLATION INSPECTION AND PROCEDURES	
2.1 SCOPE OF SECTION	12
2.2 GENERAL.....	12
2.3 SPECIAL FEATURES	12
2.4 TREATMENT REQUIRED FOR SPECIAL FEATURES	12
2.5 CONDENSATION ASSESSMENT.....	13
2.6 ELECTRICAL CABLES AND ELECTRICAL EQUIPMENT.....	13
2.7 BUILT-IN APPLIANCES	17
2.8 CONTROL MEMBRANES.....	17
 SECTION 3 GENERAL REQUIREMENTS FOR INSULATION INSTALLATION	
3.1 SCOPE OF SECTION	18
3.2 ENERGY EFFICIENCY.....	18
3.3 INSULATION INSTALLATION GUIDANCE AND RULES	21
3.4 GENERAL INSULATION METHOD.....	22
 SECTION 4 SAFETY REQUIREMENTS FOR INSULATION INSTALLATION	
4.1 SCOPE OF SECTION	26
4.2 GENERAL SAFETY REQUIREMENTS	26
4.3 ELECTRICAL SAFETY	26
4.4 SAFETY REQUIREMENTS WHEN WORKING WITH INSULATION PRODUCTS	28
4.5 SAFETY REQUIREMENTS FOR CONCEALED STRUCTURAL MEMBERS (CEILINGS)	28
4.6 POLYSTYRENE CONTACT WITH ELECTRICAL CABLES	28
 SECTION 5 THERMAL ENVELOPE DETAILED INSTALLATION METHODS	
5.1 SCOPE OF SECTION	29
5.2 INSTALLATION OF ROOF INSULATION.....	29
5.3 INSTALLATION OF CEILING INSULATION.....	39
5.4 INSTALLATION OF WALL INSULATION	53
5.5 INSTALLATION OF FLOOR INSULATION	65
 SECTION 6 INSTALLATION STATEMENT.....	 80

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-