



Pliable building membranes and underlays

Part 2: Installation



This Australian Standard® was prepared by Committee BD-058, Thermal Insulation. It was approved on behalf of the Council of Standards Australia on 27 September 2016. This Standard was published on 2 May 2017.

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- 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
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 - Master Builders Australia
 - Plastics and Chemicals Industries Association
 - Pliable Membranes Association of Australia and New Zealand
 - Polyester Insulation Manufacturers Association
 - Recessed Luminaire Enclosure Association of Australia
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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.

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Australian Standard[®]

Pliable building membranes and underlays

Part 2: Installation

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PREFACE

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee BD-058, Thermal Insulation, to supersede AS/NZS 4200.2:1994, *Pliable building membranes and underlays, Part 2: Installation requirements*.

This Standard incorporates Amendment No. 1 (June 2018). 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.

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 revision is to specify procedures for the installation of pliable building membranes in buildings that are consistent with good building practice. The requirements for installation have been compiled from a wide range of procedures used in Australia and considered as good practice in the installation of pliable building membranes.

This Standard is intended to be read in conjunction with AS/NZS 4200.1, *Pliable building membranes and underlays, Part 1: Materials*.

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

This Standard incorporates a Commentary on some Clauses. The Commentary directly follows the relevant clause, is designated by ‘C’ preceding the clause number and is printed in italics in a panel. The Commentary is intended to help readers understand the background to the clause but does not form part of the clause.

CONTENTS

	<i>Page</i>
FOREWORD.....	4
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	5
1.2 APPLICATION	5
1.3 NORMATIVE REFERENCES	5
1.4 DEFINITIONS.....	6
1.5 ELECTRICAL SAFETY	7
SECTION 2 DESIGN SPECIFICATION REQUIREMENTS	
2.1 GENERAL.....	8
2.2 VAPOUR CONTROL MEMBRANES	8
2.3 AIR CONTROL MEMBRANES (AIR BARRIERS).....	8
2.4 WATER CONTROL MEMBRANES	8
2.5 THERMAL CONTROL MEMBRANES	9
2.6 ALLOWABLE USE BASED ON DUTY CLASSIFICATIONS.....	9
SECTION 3 INSTALLATION OF PLIABLE BUILDING MEMBRANES	
3.1 SCOPE OF SECTION	10
3.2 GENERAL REQUIREMENTS.....	10
3.3 COMMON REQUIREMENTS FOR ROOFS	10
3.4 METAL SHEET ROOFING	12
3.5 TILED ROOFING	15
3.6 CEILINGS	19
3.7 COMMON REQUIREMENTS FOR WALLS	19
3.8 FRAMED WALLS	20
3.9 CAVITY MASONRY WALLS	20
3.10 SOLID MASONRY/CONCRETE WALLS, CONCRETE FLOORS AND ROOFS..	21
3.11 FRAMED FLOORS.....	23
SECTION 4 PENETRATIONS	
4.1 GENERAL.....	26
4.2 THERMAL CONTROL.....	26
4.3 VAPOUR CONTROL AND AIR CONTROL	26
4.4 WATER CONTROL.....	26
4.5 HOT FLUES.....	26
4.6 RECESSED LUMINAIRES	27
4.7 WINDOWS, ROOF WINDOWS, SKYLIGHTS AND DOORS	29
APPENDICES	
A SAFETY GUIDANCE FOR PLIABLE BUILDING MEMBRANE INSTALLATION	32
B DURABILITY	35
C PROTECTION AGAINST CONDENSATION	37
BIBLIOGRAPHY.....	40

FOREWORD

This edition of AS 4200.2 includes requirements on how to install membranes for the purpose of sarking to provide effective weather proofing. Weather proofing is achieved through the control of air, liquid water and water vapour transfer in roofs and walls. These sarking materials also commonly utilize reflective metallic coatings on one or both sides of the membrane to deliver a level of thermal control. These sarking and thermal control pliable building membranes require certain installation practices to achieve the purpose for which the product is designed and installed.

In recent years, evidence shows that there is a danger of electrocution where electrically conductive membranes are used in certain applications within the building envelope. This edition of AS 4200.2 provides advice on these safety concerns. This Standard does not purport to address all of the safety concerns associated with the use of pliable building membranes. It is the responsibility of the user of this Standard to establish appropriate work, health and safety practices and determine the applicability of regulatory requirements prior to use.

STANDARDS AUSTRALIA
Australian Standard
Pliable building membranes and underlays

Part 2: Installation

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out requirements for the installation of pliable building membranes (also known as ‘sarking’ or ‘underlay’), when used either independently or as a facing to other materials, such as insulation materials, for any one or more of the following control functions:

- (a) Water control.
- (b) Thermal control.
- (c) Vapour control.
- (d) Air control.

This Standard does not cover requirements for materials used in the following applications:

- (i) Air-handling ducts and building services.
- (ii) Under concrete slabs on-ground.
- (iii) Waterproofing above flat concrete roofs.

NOTES:

- 1 The installation of foil-faced building blanket is covered in AS 3999, except for metal sheet roofing and walls, which are covered in Section 3 of this Standard.
- 2 Where regulations require special attention in bushfire prone areas, it may be necessary for a pliable building membrane to comply with AS 3959.
- 3 This Standard includes advice on work health and safety (WHS), and electrical safety (see Appendix A); however, the user of this Standard needs to refer to relevant federal, state and territory regulations and determine legal requirements as applicable.

1.2 APPLICATION

This Standard is intended to be read in conjunction with AS/NZS 4200.1.

This Standard sets out minimum requirements for the installation of pliable building membranes. It does not purport to provide for all of the requirements for any particular installation.

Care shall be taken to ensure that the requirements are applied to the intended functions of the pliable building membranes.

1.3 NORMATIVE REFERENCES

The following are the normative documents referenced in this Standard:

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

AS	
2050	Installation of roof tiles
4055	Wind loads for housing