

Australian/New Zealand Standard™

**Pliable building membranes and  
underlays**

**Part 1: Materials**



## **AS/NZS 4200.1:2017**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee BD-058, Thermal Insulation. It was approved on behalf of the Council of Standards Australia on 7 October 2016 and by the New Zealand Standards Approval Board on 17 November 2016.

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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  
Building Research Association of New Zealand  
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*This Standard was issued in draft form for comment as DR AS/NZS 4200.1:2015.*

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# Australian/New Zealand Standard<sup>™</sup>

## Pliable building membranes and underlays

### Part 1: Materials

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee BD-058, Thermal Insulation, to supersede AS/NZS 4200.1:1994.

The objective of this Standard is to provide a means of testing and evaluating pliable building membrane materials for various applications within a building structure.

The objective of this revision is to provide broader material classifications for pliable building membranes to assist users in making informed decisions on how to select the right material for the chosen application, including classification of electrical conductivity.

It is acknowledged that further research is required to better define the Duty Classification for all material types in common use. When this work is completed the Duty Classifications will be reviewed and if justified, proposed for revision in a future amendment to this Standard. This revision also includes optional tests for material properties that determine long-term durability which will generate market data able to be used within the next revision.

This Standard is intended to be read in conjunction with AS 4200.2, *Pliable building membranes, Part 2: Installation requirements*.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

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## STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

**Australian/New Zealand Standard**  
**Pliable building membranes and underlays**

**Part 1: Materials**

**1 SCOPE**

This Standard sets out requirements for materials for use as pliable building membrane (also known as ‘sarking’ or ‘underlay’), when used either independently or as a facing on 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.

NOTE: Thermal performance of reflective insulation pliable building membranes and faced building blankets is specified in AS/NZS 4859.1.

**2 APPLICATION**

This Standard is intended for use in the assessment and classification of pliable building membrane materials.

**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	
1301	Methods of test for pulp and paper
1301.423	Folding endurance of paper—Kohler-Molin methods
1301.48s	Tensile strength of paper or paperboard (constant rate of elongation method)
1530	Methods for fire tests on building materials, components and structures
1530.2	Method 2: Test for flammability of materials
2001	Methods of test for textiles
2001.2	Method 2: Physical tests
2001.2.19	Method 19: Determination of bursting force of textile fabrics—Ball burst method
3706	Geotextiles—Methods of test
3706.4	Method 4: Determination of burst strength—California bearing ratio (CBR)—Plunger method