

Australian Standard<sup>®</sup>

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**Cellulose-cement products**

**Part 2: Flat sheets**

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This Australian Standard was prepared by Committee BD/40, Fibre Cement Building Products. It was approved on behalf of the Council of Standards Australia on 28 October 1991 and published on 17 January 1992.

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The following interests are represented on Committee BD/40:

Australian Institute of Building  
Australian Institute of Building Surveyors  
Australian Uniform Building Regulations Coordinating Council  
Confederation of Australian Industry  
Department of Administrative Services—Australian Construction Services

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## PREFACE

This Standard was prepared by the Standards Australia Committee on Fibre Cement Building Products. It is new Standard, intended to complement AS 2908.1, *Cellulose-cement products, Part 1: Corrugated sheets*.

The Standard is based on ISO 396/3, *Products in fibre reinforced cement, Part 3: Cellulose-asbestos-cement flat sheets* and on ASTM C 1186, *Specification for flat non-asbestos fibre-cement sheets*.

Three types of material for both external and internal application in four categories, as determined by sheet strength, are specified.

The sheet materials specified are generally installed in accordance with traditional building practice determined and specified by the manufacturer.

The Standard forms part of a series, which is as follows:

AS	
2908	<i>Cellulose-cement products</i>
2908.1	<i>Part 1: Corrugated sheets</i>
2908.2	<i>part 2: Flat sheets (this Standard)</i>

## CONTENTS

	<i>Page</i>
1 SCOPE .....	3
2 REFERENCED DOCUMENTS .....	3
3 CLASSIFICATION .....	3
4 COMPOSITION .....	4
5 DIMENSIONS AND TOLERANCES .....	4
6 MECHANICAL AND PHYSICAL PROPERTIES .....	4
7 TYPE CHARACTERISTIC TESTS .....	5
8 REQUIRED TESTS .....	5
9 MARKING .....	6
APPENDIX A MEANS FOR DEMONSTRATING COMPLIANCE WITH THIS STANDARD .....	7

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STANDARDS AUSTRALIA

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**Australian Standard**

**Cellulose-cement products**

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**Part 2: Flat sheets**

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**1 SCOPE** This Standard specifies the characteristics and establishes the test methods and controls as well as acceptance conditions for cellulose-cement flat sheets. It covers sheets intended for external applications such as claddings, facades, curtain walls and soffits, as well as sheets intended for internal use such as linings, partitions, ceilings, floors and the like, including sheets intended for moist conditions.

The sheets are finished with one of the following:

- (a) Their natural colour.
- (b) Colouring matter added to their composition.
- (c) Coloured or uncoloured adherent coatings on their surface.

This Standard does not apply to the following products:

- (i) Asbestos-fibre-reinforced sheets.
- (ii) Cement-bonded particle board.
- (iii) Boards of portland or equivalent cement, reinforced with wood particles.
- (iv) Gypsum plasterboard.

NOTE: Advisory information on alternative methods of determining compliance with this Standard is given in Appendix A.

**2 REFERENCED DOCUMENTS** The following documents are referenced to in this Standard:

AS

- 1199 Sampling procedures and tables for inspection by attributes
- 1399 Guide to AS 1199—Sampling procedures and tables for inspection by attributes
- 2490 Sampling procedures and charts for inspection by variables for percent defective
- 3900 Quality systems—Guide to selection and use
- 3904 Quality systems—Guide to quality management and quality system elements
- 3991 Methods of testing flat cellulose-cement sheets
  - 3991.1 Method 1: Determination of dimensions of sheets
  - 3991.2 Method 2: Determination of flexural strength—Modulus of rupture
  - 3991.3 Method 3: Determination of density (oven-dried)
  - 3991.4 Method 4: Determination of watertightness
  - 3991.5 Method 5: Determination of resistance to hot water soaking
  - 3991.6 Method 6: Determination of resistance to heat/rain
  - 3991.7 Method 7: Determination of resistance to freeze/thaw

ISO

Guide 44 General rules for ISO or IEC international third-party certification scheme for products

**3 CLASSIFICATION** Flat sheets covered by this Standard shall be divided into three types according to their application, as follows:

- (a) *Type A* Sheets which are intended for external applications where they might be subjected to the direct action of sun, rain or snow, and which are supplied coated or uncoated.
- (b) *Type B* Sheets which are intended for internal applications or external applications where they will not be subjected to the direct action of sun, rain or snow, yet have to remain tolerant to moisture and damp conditions.
- (c) *Type C* Sheets which are intended for internal application and are not subjected to moisture and damp conditions.

The sheet types specified above shall be further classified into four categories according to their flexural strength, as specified in Table 3.

The test requirements for each of these types and categories are specified in Clause 8.

NOTES:

- 1 It is recommended that the sheet type and category be specified in the appropriate technical literature.
- 2 If sheets of Type B or Type C are used in external applications where they are directly exposed to the weather but are protected by a coating or impregnation, the weather resistance of the sheets is determined by the quality of the protection. Specification of this protection as well as methods for control and tests are outside the scope of this Standard.