

Australian Standard[®]

Cellulose-cement products

Part 1: Corrugated sheets

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.

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, to supersede AS 2908—1987, *Cellulose cement products—Corrugated sheets for roofing and cladding*. The technical content is generally similar, but the scope of the Standard has been expanded to allow for varying sheet profiles.

The sheets specified in this Standard may be installed in accordance with AS 1639, *The design and installation of corrugated fibre-reinforced cement roofing and wall cladding*.

So that the best use is made of corrugated cellulose-cement sheets for roofing and cladding, it is recommended that this series be read in conjunction with AS 1639.

The standard forms part of a series which is as follows:

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

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STANDARDS AUSTRALIA

Australian Standard

Cellulose-cement products

Part 1: Corrugated sheets

1 SCOPE This Standard sets out requirements for corrugated cellulose-cement sheets for use primarily as roofing and cladding. It also applies to autoclaved sheets in which the cement is partially replaced by ground silica.

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 surfaces.

This Standard does not apply to asbestos-fibre-reinforced sheets.

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

2 REFERENCED DOCUMENTS The following documents are referred 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
- 2193 Methods for calibration and grading of force-measuring systems of testing machines
- 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

ISO

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

3 CLASSIFICATION Corrugated sheets covered by this Standard shall be divided into three classifications according to the depth of corrugation, as given in Table 1.

NOTE: It is recommended that the classification of a corrugated sheet material be specified in all appropriate technical literature.

TABLE 1
PROFILE DEPTH CLASSIFICATION

Profile class	Corrugation depth mm	
	Less than	Not less than
1	50	45
2	60	50
3	75	60

4 COMPOSITION Corrugated cellulose-cement sheets complying with this Standard shall consist primarily of an inorganic hydraulic binder, or a calcium silicate formed by a chemical reaction of a silicious and calcareous material, reinforced by cellulose fibres to which other organic or synthetic fibres may be added. The addition of process aids, fillers and pigments which are compatible with the cellulose-cement mixture is acceptable.

5 PHYSICAL REQUIREMENTS Corrugated sheets shall generally be rectangular in shape and be corrugated such that the crowns of the corrugations are parallel within the tolerances specified in Clause 6. The finished sheets shall be clean, with neatly trimmed edges and free from visible defects.

6 DIMENSIONS AND TOLERANCES The dimensions and tolerances on corrugated cellulose-cement sheets shall be as follows:

- (a) *Length*: 1200 mm to 3000 mm rising by increments of 300 +5, −10 mm.
- (b) *Width*:
 - (i) *Class 1*: 1080 +10, −5 mm.
 - (ii) *Class 2*: 1150 +10, −5 mm.
 - (iii) *Class 3*: 1093 +10, −5 mm.
- (c) *Thickness*—when measured at T, as shown in Figure 1: 6.0 +1.5 −10 mm.
- (d) *Pitch*—when measured at P, as shown in Figure 1:
 - (i) *Class 1*: 150 +0, −10 mm.
 - (ii) *Class 2*: 180 +0, −10 mm.
 - (iii) *Class 3*: 210 +0, −10 mm.