

AS 2590—1983

Australian Standard[®]

**GLASS FIBRE REINFORCED
GYPSUM PLASTER**

This Australian standard was prepared by Committee BD/11, Gypsum Plaster Products. It was approved on behalf of the Council of the Standards Association of Australia on 13 October 1982 and published on 7 February 1983.

The following interests were represented on the committee responsible for the preparation of this standard:

Acceptable Standards of Construction Committee, N.S.W.
CSIRO, Division of Building Research
Experimental Building Station
Federation of Wall and Ceiling Contractors of Australia and New Zealand
Housing Authorities
Local Government Department of Victoria
Major Long Term Lending Authorities of Victoria
Master Builders Federation of Australia Incorporated
Royal Australian Institute of Architects
Royal Australian Chemical Institute
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GYPSUM PLASTER**

First published 1983

PREFACE

This standard was prepared by the Association's Committee on Gypsum Plaster Products. It is one of a series relating to reinforced gypsum plaster for building purposes.

The first standards dealing with sisal hemp reinforced gypsum plaster were issued in 1931. In 1950 a specification and a code of practice for the erection and fixing of these products were issued as AS A44 and AS CA20 respectively. In 1978 these standards were revised and issued as AS 2185, Fibrous Plaster Products, and AS 2186, Code of Practice for the Erection and Fixing of Fibrous Plaster Products. Although these standards are still current, the use of sisal hemp as reinforcement has diminished and the use of glass fibre as reinforcement has increased.

As a result of this change it was considered by the building industry and authorities that new standards dealing with this material were needed. This standard closely follows the layout and format of AS 2185. AS 2591 deals with the erection and fixing of glass fibre reinforced gypsum plaster products.

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STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard
for
GLASS FIBRE REINFORCED GYPSUM PLASTER

1 SCOPE. This standard specifies requirements for glass fibre reinforced gypsum plaster intended for use as a lining material for walls, ceilings and partitions including sheets, mouldings and architectural forms.

Methods of manufacture are given in Appendix A.

2 REFERENCED DOCUMENTS. The following standard is referred to in this standard:

AS 2592 Gypsum Plaster for Building Purposes.

3 DEFINITION. For the purpose of this standard, the following definition applies:

Glass fibre reinforced gypsum plaster—a composition of gypsum plaster and glass fibre reinforcement forming a stiff body, one surface of which is smooth and suitable for decoration.

4 MATERIALS.

4.1 Gypsum Plaster. The gypsum plaster used in the manufacture of glass fibre reinforced gypsum plaster shall comply with AS 2592.

4.2 Glass Fibre. The reinforcing fibre shall consist of a coated glass fibre specifically designed for use with gypsum plaster. The fibre shall be free from dirt and other substances in quantities likely to adversely affect the serviceability of the finished product.

4.3 Water. Water shall be clean and fresh without noticeable colour and suitable for drinking.

4.4 Release Agents. Oils and greases used as release agents during the manufacturing process shall leave the plaster surface of the product clean and unstained, and suitable for decoration.

5 PERFORMANCE REQUIREMENTS FOR SHEETS.

5.1 Sampling. Except where sampling is carried out in the manufacturer's plant to the requirements of the Certification Mark Scheme of the Standards Association of Australia or where otherwise specified, at least 0.25 percent of the number of sheets in a shipment, but not less than three sheets, shall be selected at random as being representative of the shipment and shall constitute a sample for the purpose of testing for compliance with this standard.

5.2 Requirements.

5.2.1 General. When tested in accordance with Appendix B, four specimens cut from each sample sheet shall comply with the requirements of Clauses 5.2.2 to 5.2.5.

5.2.2 Thickness. When measured in accordance with Paragraph B2 of Appendix B, the thickness shall be not less than 8 mm.

5.2.3 Distribution of reinforcing fibre. When the edges, exposed for the thickness test in accordance with Paragraph B2 of Appendix B, are inspected visually, they shall exhibit an even distribution of reinforcing fibre throughout the body of the sheet.

5.2.4 Surface hardness. When a sample sheet is tested in accordance with Paragraph B3 of Appendix B, the diameter of any impression caused by the test ball in the tested surface shall not exceed 5 mm.

5.2.5 Transverse bending test. When determined in accordance with Paragraph B4 of Appendix B, the deflection of a sheet of 8 mm nominal thickness subjected to a force of 290 N shall be not more than 20 mm. If the deflection is less than 6 mm, the force shall be increased until failure occurs. The deflection before failure shall then be not less than 6 mm.

6 MARKING. The following information shall be clearly and indelibly marked on each sheet of glass fibre reinforced gypsum plaster:

- (a) The name or registered trademark of the manufacturer.
- (b) Nominal thickness.
- (c) Width.

NOTE: Manufacturers who place the number of this Australian standard on glass fibre reinforced gypsum plaster, packaging or literature related thereto should ensure that the plaster is manufactured to comply with the standard.

Attention is particularly drawn to the scheme for independent assurance provided by the AS Mark which is a registered certification trademark owned by the Standards Association of Australia and which is available for use with suitable Australian standards.

The presence of the AS Mark on or in relation to a product is an assurance that the goods have been produced under a system of supervision, control and testing applied during manufacture and including periodical inspections at the manufacturer's works in accordance with the certification mark scheme of the SAA.

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