

Australian Standard[®]

Plastic roof and wall cladding materials

**Part 3: Glass fibre reinforced polyester
(GRP)**



This Australian Standard® was prepared by Committee PL-022, Plastic Building Sheets. It was approved on behalf of the Council of Standards Australia on 30 May 2006. This Standard was published on 30 June 2006.

The following are represented on Committee PL-022:

- Australian Building Codes Board
 - Australian Industry Group
 - CSIRO, Manufacturing and Infrastructure Technology
 - Composites Institute of Australia
 - Plastics and Chemicals Industries Association
 - University of Adelaide
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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 public comment period.

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Plastic roof and wall cladding materials

Part 3: Glass fibre reinforced polyester (GRP)

First published as part of AS A66—1966.
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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PL-022, Plastic Building Sheets to supersede AS/NZS 4256.3:1994.

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.

This Standard is Part of a series of Standards for plastic roof and wall cladding materials, which comprises the following:

AS

4256	Plastic roof and wall cladding materials
4256.1	Part 1: General requirements
4256.2	Part 2: Unplasticized polyvinyl chloride (uPVC) building sheets
4256.3	Part 3: Glass fibre reinforced polyester (GRP) (this Standard)
4256.4	Part 4: Unplasticized polyvinyl chloride (uPVC) wall cladding and boards
4256.5	Part 5: Polycarbonate

The AS 4256 series is to be used in conjunction with the series of test methods for plastic building sheets, which comprises the following:

AS/NZS

4257	Plastic roof and wall cladding materials—Methods of test
4257.0	Part 0: General introduction and list of methods
4257.1	Method 1: Determination of dimensional properties
4257.2	Method 2: Determination of dimensional stability at 60°C
4257.3	Method 3: Determination of mass per unit area of sheet
4257.4	Method 4: Determination of diffuse light transmission
4257.5	Method 5: Determination of glass fibre content
4257.6	Method 6: Determination of impact resistance
4257.7	Method 7: Determination of colourfastness, light transmission and impact resistance following ultraviolet light exposure
4257.8	Method 8: Determination of residual styrene
4257.9	Method 9: Determination of transverse bending stiffness
4257.10	Method 10: Determination of surface deformation (oil canning)

Changes to the previous edition are as follows:

- (a) Incorporation of editorial and correction amendments.
- (b) Updating of referenced standards.

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.

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STANDARDS AUSTRALIA

Australian Standard**Plastic roof and wall cladding materials****Part 3: Glass fibre reinforced polyester (GRP)****1 SCOPE**

This Standard specifies requirements for general-purpose translucent and opaque glass fibre reinforced polyester sheets of flat, corrugated and other geometrical configurations intended for roof and wall cladding applications. It applies to glass-reinforced polyester sheets installed in accordance with AS 1562.3.

NOTE: Means for demonstrating determining compliance with this Standard are given in Appendix A.

2 REFERENCED DOCUMENTS

The following documents are referred

AS/NZS

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|--------|--|
| 1145 | Determination of tensile properties of plastics materials |
| 1199 | Sampling procedures and tables for inspection by attributes |
| 1199.0 | Part 0: Sampling procedures and tables for inspection by attributes—
Introduction to the ISO 2859 attribute sampling system |
| 1199.1 | Part 1: Sampling procedures and tables for inspection by attributes—
Sampling schemes indexed by acceptance quality limit (AQL) for lot-
by-lot inspection |
| 1562 | Design and installation of sheet roof and wall cladding |
| 1562.3 | Part 3: Plastic |
| 1745 | Outdoor weathering of plastics in the Australian environment |
| 1745.1 | Part 1: Commercial products |
| 1745.2 | Part.2: Guide for design purposes |
| 4256 | Plastic roof and wall cladding materials |
| 4256.1 | Part 1: General requirements |

AS/NZS

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| 4257 | Plastic roof and wall cladding materials—Methods of test |
| 4257.1 | Method 1: Determination of dimensional properties |
| 4257.3 | Method 3: Determination of mass per unit area of sheet |
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| 4257.6 | Method 6: Determination of impact resistance |
| 4257.7 | Method 7: Determination of colourfastness, light transmission and impact
resistance following ultraviolet light exposure |
| 4257.8 | Method 8: Determination of residual styrene |
| ISO 9001 | Quality management systems—Requirements |
| ISO 9004 | Quality management systems—Guidelines for performance improvements |



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