

Australian Standard[®]

Plastic roof and wall cladding materials

Part 5: Polycarbonate



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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STANDARDS AUSTRALIA

RECONFIRMATION

OF

AS 4256.5–2006

**Plastic roof and wall cladding materials
Part 5: Polycarbonate**

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Major stakeholders of this publication have reviewed the content of this publication and in accordance with Standards Australia procedures for reconfirmation, it has been determined that the publication is still valid and does not require change.

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NOTES

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PREFACE

This Standard was prepared by the Joint Australia/New Zealand Standards Committee PL-022, Plastic Building Sheets, to supersede AS/NZS 4256.5:1996.

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 on 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)
- 4256.4 Part 4: Unplasticized polyvinyl chloride (uPVC) wall cladding panels
- 4256.5 Part 5: Polycarbonate (this Standard)

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) Addition of specifications for surface distortion.
- (b) Incorporation of editorial and correction amendments.
- (c) 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 5: Polycarbonate

1 SCOPE

This Standard specifies requirements for transparent, translucent and opaque polycarbonate sheeting intended for use as roof or wall cladding. It applies primarily to polycarbonate sheeting installed in accordance with AS 1562.3.

This Standard is to be read in conjunction with AS 4256.1.

NOTE: Means for demonstrating compliance with this Standard are 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 |
| 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

- | | |
|--------|---|
| 4257 | Plastic roof and wall cladding materials—Method of test |
| 4257.1 | Method 1: Determination of dimensional properties |
| 4257.4 | Method 4: Determination of diffuse light transmission |
| 4257.6 | Method 6: Determination of impact resistance |
| 4257.7 | Method 7: Determination of colourfastness, light transmission and impact
resistance following ultraviolet light exposure |

ISO 9001 Quality management systems—Requirements

ISO 9004 Quality management systems—Guidelines for performance improvements

SA

- | | |
|----------|---|
| HB18 | Conformity assessment |
| HB 18.28 | Guide 28: Guidance on a third-party certification system for products |

3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 4256.1 apply.