

Australian Standard[®]

Plastic roof and wall cladding materials

Part 1: General requirements

STANDARDS
Australia



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 4256.1–2006

**Plastic roof and wall cladding materials
Part 1: General requirements**

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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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Part 1: General requirements

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PL-022 on Plastic Building Sheets to supersede AS/NZS 4256.1:1994.

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 (this Standard)
- 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 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 roof and wall cladding materials, 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 1: General requirements

1 SCOPE

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

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

2 APPLICATION

Plastic building sheets shall comply with the requirements of this Standard and the following, as applicable:

- (a) Unplasticized polyvinyl chloride (UPVC).....AS 4256.2 or AS 4256.4.
- (b) Glass fibre reinforced polyester (GRP).....AS 4256.3.
- (c) Polycarbonate.....AS 4256.5.

3 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
- 1530 Methods for fire tests on building materials, components and structures
- 1530.3 Part 3: Simultaneous determination of ignitability, flame propagation, heat
release and smoke release
- 1562 Design and installation of sheet roof and wall cladding
- 1562.3 Part 3: Plastic
- 4256 Plastic roof and wall cladding materials (all parts)

AS/NZS

- 4257 Plastic roof and wall cladding materials—Methods of test
- 4257.2 Method 2: Determination of dimensional stability at 60°C

- ISO 9001 Quality management systems—Requirements
- ISO 9004 Quality management systems—Guidelines for performance improvements

SA

- HB18 Conformity assessments
- HB18.44 Guide 44 Guidance on a third party certification system for products