

AS/NZS 4256.1:1994

Australian/New Zealand Standard

**Plastic roof and wall cladding
materials**

Part 1: General requirements

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee PL/22, Plastic Building Sheets. It was approved on behalf of the Council of Standards Australia On 8 September 1994 and on behalf of the Council of Standards New Zealand on 17 October 1994. It was published on 5 December 1994.

The following interests are represented on Committee PL/22:

Australian Building Codes Board
Australian Institute of Building Surveyors
Building Research Association of New Zealand
Composites Institute of Australia
CSIRO, Division of Building, Construction & Engineering, Australia
Housing Industry Association, Australia
Plastics and Chemicals Industry Association, Australia
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Australian/New Zealand Standard

Plastic roof and wall cladding materials

Part 1: General requirements

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PL/22 on Plastic Building Sheets as a revision (in part) of AS 2376, *Plastics building sheets, Part 1—1980, Extruded PVC, Part 2—1981, Glass fibre reinforced polyester (GRP)* and AS 2920—1987, *Unplasticized polyvinyl chloride (UPVC) wall cladding*.

This Standard is one of a series of Standards which, when complete, will comprise:

AS/NZS

- 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)
- Part 4: Unplasticized polyvinyl chloride (uPVC) wall cladding and boards*
- Part 5: Polycarbonate*
- Part 6: Acrylic*

These Standards are to be used in conjunction with the series of test methods for plastic roof and wall cladding materials which, when complete, will comprise:

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
- Method 9: Determination of bending strength and modulus of elasticity*

It is issued as a Joint Standard under the terms of the Active Cooperation Agreement between Standards Australia and Standards New Zealand.

In New Zealand, technical requirements for building construction are contained in New Zealand Building Code and the Building Regulations. The following Code clauses are, or may be, relevant in respect to plastic building sheets: B1 Structure, C3 Spread of Fire, E2 External Moisture, E3 Internal Moisture, F2 Hazardous Buildings Materials, G7 Natural Light, H1 Energy Efficiency.

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.

* In course of preparation.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand 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.

NOTE: Alternative methods for determining 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) uPVC: AS/NZS 4256.2.
- (b) Glass fibre reinforced polyester (GRP): AS/NZS 4256.3.
- (c) Any other relevant Standard in this series (see Preface).

Sheets complying with this Standard are intended to be fixed in accordance with AS 2424 or AS 2921, as appropriate.

3 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 |
| 2424 | Plastics building sheets—General installation requirements and design of roofing systems |
| 2921 | Unplasticized polyvinyl chloride (uPVC) wall cladding—General installation requirements |
| 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 |

AS/NZS

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| 4256 | Plastic roof and wall cladding materials |
| 4256.2 | Part 2: Extruded uPVC |
| 4256.3 | Part 3: Glass fibre reinforced polyester (GRP) |
| 4257 | Plastic roof and wall cladding materials—Methods of test |
| 4257.2 | Method 2: Determination of dimensional stability at 60°C |

* These Standards have been approved by the New Zealand Standards Council for use in New Zealand.



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