

Australian Standard[®]

**Design and installation of sheet roof and
wall cladding**

Part 3: Plastic



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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Design and installation of sheet roof and wall cladding

Part 3: Plastic

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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 1562.3:1996.

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 sheet roof and wall cladding which, comprises the following:

AS

- 1562 Design and installation of sheet roof and wall cladding
- 1562.1 Part 1: Metal
- 1562.3 Part 3: Plastic (this Standard)

AS/NZS

- 1562 Design and installation of sheet roof and wall cladding
- 1562.2 Part 2: Corrugated fibre-reinforced cement

Plastic roof and wall cladding materials are installed using the normal procedures for other types of building sheets but with certain modifications to fixing techniques because of the inherent properties of the material. The purpose of this Standard is to reinforce general safety rules in relation to sheet installation and to highlight the differences in fixing techniques required for plastic sheets as compared with those used for sheets of other materials.

This Standard is to be used in conjunction with the suite of Standards on plastic roof and wall cladding materials, which comprise 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 and boards
- 4256.5 Part 5: Polycarbonate

The main changes to the previous edition are as follows:

- (a) To develop the Standard as an Australian Standard.
- (b) Deletion of Appendices B and C and inclusion of reference to AS/NZS 4389 for safety mesh specification.
- (c) Clarification on the intent of the Standard regarding the application of safety mesh in relation to the support conditions of the sheet.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

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STANDARDS AUSTRALIA

Australian Standard**Design and installation of sheet roof and wall cladding****Part 3: Plastic**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard sets out procedures for the design and installation of plastic roof and wall cladding materials for walls and roofs.

The Standard is primarily intended to apply to the use of plastic roof and wall cladding materials complying with the AS 4256 suite of Standards.

NOTES:

- 1 The sheets do not contribute to the structural or loadbearing capacity of the structure and due allowance should be made to the surrounding structure to compensate for the opening areas. For applications where structural design requirements must be satisfied, reference should be made to the design and testing provisions of AS 1562.1 for roofing without transverse joints.
- 2 For use of the sheets in abnormal environmental conditions (e.g. extremes of temperature), the advice of the manufacturer should be sought.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

1562	Design and installation of sheet roof and wall cladding
1562.1	Part 1: Metal
1657	Fixed platforms, walkways, stairways and ladders—Design, construction and installation
1684	Residential timber framed construction (all parts)
1720	Timber structures
1720.1	Part 1: Design methods
1720.2	Part 2: Timber properties
3600	Concrete structures
3700	Masonry structures
4040	Methods of testing sheet roof and wall cladding
4040.2	Part 2: Resistance to wind pressures for non-cyclone regions
4040.3	Part 3: Resistance to wind pressures for cyclone regions
4040.4	Part 4: Resistance to impact (sandbag) for sheet roof materials
4100	Steel structures
4256	Plastic roof and wall cladding materials (all parts)
4285	Skylights



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