



# Reinforced Autoclaved Aerated Concrete

## Part 1: Structures

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This Australian Standard® was prepared by Committee BD-106, Autoclaved Aerated Concrete. It was approved on behalf of the Council of Standards Australia on 23 November 2015.

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  - Australian Building Codes Board
  - Australian Institute of Building
  - Building Designers Association of Australia
  - Consult Australia
  - CSIRO
  - Engineers Australia
  - Housing Industry Association
  - Master Builders Australia
  - National Precast Concrete Association Australia
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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 the public comment period.

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Australian Standard<sup>®</sup>

**Reinforced Autoclaved Aerated  
Concrete**

**Part 1: Structures**

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## PREFACE

This Standard was prepared by the Standards Australia Committee BD-106, Autoclaved Aerated Concrete.

*This Standard incorporates Amendment No. 1 (November 2018). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.*

The objective of this Standard is to provide minimum requirements for the design and construction of structures incorporating Reinforced Autoclaved Aerated Concrete (Reinforced AAC) members, including built-in components, for use by architects, engineers and builders.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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**Australian Standard**

**Reinforced Autoclaved Aerated Concrete**

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Part 1: Structures

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SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard specifies minimum requirements for the design and construction of structures incorporating Reinforced Autoclaved Aerated Concrete (Reinforced AAC) members.

Reinforced AAC structures and Reinforced AAC members designed and constructed in accordance with AS 5146.2 comply with this Standard for the applications defined therein.

Reinforced AAC structures and Reinforced AAC members designed and constructed in accordance with AS 5146.3 comply with this Standard for the applications defined therein.

NOTES:

- 1 This Standard uses the term 'AAC' to refer to autoclaved aerated concrete material and 'Reinforced AAC' to refer to members made of the AAC material into which steel reinforcement has been cast.
- 2 This Standard does not cover the design or construction of structures consisting of unreinforced autoclaved aerated concrete block.
- 3 This Standard applies only to cases where the design has been performed by an experienced structural engineer and design actions, material properties, section properties, bending moments, shears and deflections have been determined in accordance with the provisions of this Standard and AS 5146.2.
- 4 This Standard should not be interpreted in a way that prevents the design and construction of structures that use alternative materials or methods of design or construction not specifically referred to herein. However, the design and construction of such structures are outside the scope of this Standard.

**1.2 NORMATIVE REFERENCES**

The following are the normative documents referenced in this Standard.

- A1 | All references in the body of this Standard to the deleted undated normative references shall be replaced by the corresponding dated Australian Standard references.

NOTE: Documents referenced for informative purposes are listed in the Bibliography.

S	11.9	Structural design actions
	170.4	Part 4: Earthquake actions in Australia
	1530	Methods for fire tests on building materials, components and structures
	1530.4	Part 4: Fire-resistance test of elements of construction
	4055	Wind loads for housing
	5146	Reinforced autoclaved aerated concrete
A1	5146.2:2018	Part 2: Design
	5146.3:2018	Part 3: Construction