



# **Prefabricated concrete elements**

## **Part 2: Building construction**



This Australian Standard® was prepared by Committee BD-066, Tilt-up construction. It was approved on behalf of the Council of Standards Australia on 8 July 2015. This Standard was published on 3 September 2015.

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  - Australian Council of Trade Unions
  - Australian Engineered Fasteners and Anchors Council
  - Australian Institute of Building Surveyors
  - Australian Steel Institute
  - Building Designers Association of NSW
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  - Steel Reinforcement Institute of Australia
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- 

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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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## PREFACE

This Standard was prepared by the Standards Australia Committee BD-066, Tilt-up Construction, to supersede AS 3850—2003, *Tilt-up concrete construction*.

This Standard is part of a series, which comprises the following parts:

AS

3850 Prefabricated concrete elements

3850.1 Part 1: General requirements

3850.2 Part 2: Building construction (this Standard)

The objective of this part of the Standard is to provide requirements for planning, construction, design, casting, transportation, erection and incorporation into the final structure of prefabricated concrete elements in building construction.

In this Standard where the word 'shall' is used, a mandatory requirement is implied; where the word 'should' is used, a recommendation is implied.

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

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.

*This document includes commentary on some of the clauses, tables and figures of the Standard. The commentary directly follows the relevant clause, table or figure, is designated by 'C' preceding the clause number and is printed in italics in a box. The commentary is for information and guidance and does not form part of the Standard.*

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STANDARDS AUSTRALIA

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SECTION 1 SCOPE AND GENERAL

**1.1 SCOPE**

This Standard provides requirements for planning, construction, design, casting, transportation, erection and incorporation into the final structure of prefabricated concrete elements in building construction. It applies to prefabricated concrete elements including, but not limited to, wall elements, columns, beams, flooring and facade elements used in building construction.

This Standard does not cover the following elements:

- (a) Concrete pipes, bridge beams or culverts (e.g. concrete pipes or culverts used in civil construction works to channel water under roads, railways or embankments).
- (b) Small individual concrete elements that can be handled manually (e.g. bricks, blocks and pavers).

NOTE: The elements mentioned in Items (a) and (b) are covered by other Australian Standards.

**1.2 NORMATIVE REFERENCES**

The following are the normative documents referenced in this Standard:

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

AS	
2550	Cranes, hoists and winches—Safe use (series)
3610	Formwork for concrete
3610.1	Part 1: Documentation and surface finish
3850	Prefabricated concrete elements
3850.1	Part 1: General requirements
4100	Steel structures
AS/NZS	
1100	Technical drawing
1100.501	Part 501: Structural engineering drawing
1170	Structural design actions
1170.0	Part 0: General principles
1170.2:2011	Part 2: Wind actions
1554	Structural steel welding
1554.3	Part 3: Welding of reinforcing steel

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