

AS 3850.3:2021



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Australia



# Prefabricated concrete elements

Part 3: Civil construction

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# **Prefabricated concrete elements**

## **Part 3: Civil construction**

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## Preface

This Standard was prepared by the Standards Australia Committee BD-066, Prefabricated Concrete Elements.

The objective of this document, is to provide requirements which impact on safety in the planning, manufacturing, construction, design, casting, transportation, erection and incorporation into the final structure of prefabricated concrete elements in civil, infrastructure and non-building construction.

This document complements AS 3850.1 and AS 3850.2:2015.

A list of all parts in the AS 3850 series can be found in the Standards Australia online catalogue.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

*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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# Australian Standard®

## Prefabricated concrete elements

### Part 3: Civil construction

## 1 Scope and general

### 1.1 Scope

This document provides requirements which impact on safety for planning, manufacturing, construction, design, casting, transportation, erection and incorporation into the structure of prefabricated concrete elements in civil, infrastructure and non-building construction. It applies to prefabricated concrete elements, including but not limited to pipes, culverts, bridge elements, tunnel elements, poles, piles, drainage and sewerage access and maintenance chambers, manholes, pits, lintels, headwalls, covers and surrounds, and water quality products.

This document does not cover the in-service design of these elements.

Additional requirements for some products are covered in other Standards.

This document does not cover the following:

- (a) Elements used in building construction.
- (b) Small individual concrete elements able to be handled manually (e.g. bricks, blocks, pavers).

### 1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

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

AS 1379, *Specification and supply of concrete*

AS 1597.1, *Precast reinforced concrete box culverts, Part 1: Small culverts (not exceeding 1200 mm span and 1200 mm height)*

AS 1597.2, *Precast reinforced concrete box culverts, Part 2: Large culverts (exceeding 1200 mm span or 1200 mm height and up to and including 4200 mm and 4200 mm height)*

AS 1657, *Fixed platforms, walkways, stairways and ladders — Design, construction and installation*

AS 2550 (all parts), *Cranes, hoists and winches — Safe use*

AS 3600, *Concrete structures*

AS 3610, *Formwork for concrete, Part 1: Specifications*

AS 3799, *Liquid membrane-forming curing compounds for concrete*

AS 3850.1, *Prefabricated concrete elements, Part 1: General requirements*

AS 4100, *Steel structures*

AS 4139, *Fibre reinforced concrete pipes and fittings*

AS 4991, *Lifting devices*

AS 5100 (series), *Bridge design*