Australian Standard®

Precast reinforced concrete box culverts

Part 2: Large culverts (from 1500 mm span and up to and including 4200 mm span and 4200 mm height)

This Australian Standard was prepared by Committee CE/26, Precast Reinforced Concrete Box Culverts. It was approved on behalf of the Council of Standards Australia on 5 December 1995 and published on 5 April 1996.

The following interests are represented on Committee CE/26:

Association of Consulting Engineers, Australia

Australian Chamber of Commerce and Industry

Australian Geomechanics Society

AUSTROADS

Cement and Concrete Association of Australia

Concrete Pipe Association of Australasia

Institute of Municipal Engineering, Australia

Institution of Engineers, Australia

National Precast Concrete Association

Railways of Australia

Swinburne Institute of Technology

University of Adelaide

University of Sydney

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PREFACE

This Standard was prepared by the Standards Australia Committee CE/26 on Precast Reinforced Concrete Box Culverts.

In the course of preparation of this Standard, the Committee found that there was support for specifying design by prototype testing as well as for specifying limit states design using load factors. The Committee agreed that both criteria be specified as alternative but not coincidental as a basis for design and acceptance of the culverts and culvert units.

The objective of this Standard is to set out minimum requirements for the design, testing, manufacture and installation of precast reinforced concrete rectangular box culverts of span 1500 mm or greater. AS 1597.1—1974, *Precast reinforced concrete box culverts*, Part 1: *Small culverts not exceeding 1200 mm width and 900 mm depth*, covers box culverts up to 1200 mm span and 900 mm height. It is intended to revise AS 1597.1 and to extend the range of that Standard to include box culverts up to 1200 mm span and 1200 mm height.

The term ‘culvert cell’ is commonly used to refer to a complete conduit made up of a number of units placed end-to-end. For the purposes of this Standard, the term ‘culvert’ is used to refer to a single cell or a multiple cell structure, and associated link slabs and base slabs.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

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