AS 1597.1—1974

Australian Standard®

Precast reinforced concrete box culverts

Part 1: Small culverts (not exceeding 1200 mm width and 900 mm depth)

The following industrial and governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia

Australian and New Zealand Railways Conferences

Australian Department of Works

Department of Public Works, N.S.W.

Engineering and Water Supply Department, S.A.

National Association of Australian State Road Authorities

Road Contractors Association

Snowy Mountains Authority

The Institution of Engineers Australia

University of N.S.W. (School of Highway Engineering)

This standard, prepared by Committee WS/12, Precast Concrete Box Culverts, was approved on behalf of the Council of the Standards Association of Australia on 2 October 1973.

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PREFACE

This standard was prepared by the Association's Committee on Precast Concrete Box Culverts as a revision of AS A136—1963, which it accordingly supersedes. In accordance with the decision of the Australian Government to change to the metric system, all dimensions and values in this standard are in international system (SI) units.

The format of the standard has been changed following a decision to prepare requirements for large size culverts; thus the complete standard will be in two Parts—Part 1, Small Culverts, and Part 2, Large Culverts. Part 2 will also incorporate requirements for a performance specification and a prescription specification.

The revised standard provides for three types of culvert and a comprehensive, but not unduly large, range of standard sizes up to and including 1200 mm width and 900 mm depth. Only one value of proof test load is given, irrespective of the span of the culverts, this load being based on the loading conditions normally experienced in service.

The term 'culvert' is commonly used to refer both to a complete conduit made up of a number of units placed end-to-end and to a single unit that may be an integral hollow section or a combination of a U-shape section and a slab. For the purpose of this standard, the term 'culvert' is used to refer to a single unit, whether integral or made up of two sections. The term 'conduit' is then used to designate the assembly of a number of 'culverts'.

Some purchasers require evidence from manufacturers that their product complies with the provisions of this standard. The 'AS' certification trademark of the Standards Association (see Clause 2.10, Marking) on a precast concrete culvert is an independent assurance of such compliance. Attention is drawn to the fact that the Standards Association intends to extend the 'AS' certification mark scheme to embrace this standard; meanwhile the scheme will continue to apply to culverts complying with AS A136 until 30 June 1974.

This standard makes reference to the following Australian standards:

AS 10	000	The International System of Units (SI) and Its Application
AS 13	302	Steel Reinforcing Bars for Concrete
AS 13	303	Hard-drawn Steel Reinforcing Wire for Concrete
AS 13	304	Hard-drawn Steel Wire Reinforcing Fabric for Concrete
AS 13	315	Portland Cement
AS 14	465	Dense Natural Aggregates

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