AS 4058—1992

Australian Standard®

Precast concrete pipes (pressure and non-pressure)

[Title allocated by Defence Cataloguing Authority: PIPE, CONCRETE, PRECAST CONCRETE PIPES] This Australian Standard was prepared by Committee WS/6, Concrete Pipes. It was approved on behalf of the Council of Standards Australia on 22 July 1992 and published on 14 September 1992.

The following interests are represented on Committee WS/6:

Australian Construction Services—Department of Administrative Services

Austroads

Confederation of Australian Industry

Concrete Pipe Association of Australia

Engineering and Water Supply Department, S.A.

Hobart City Council, Tas.

Melbourne Water

Municipal Association of Victoria

Public Works Department, N.S.W.

Railways of Australia Committee

Rural Water Commission, Vic.

Standards Association of New Zealand

State Electricity Commission, Vic.

Water Board, Sydney-Illawarra-Blue Mountains

Water Resources Commission, Qld

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 90206.

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

AS 4058—1992

Australian Standard®

Precast concrete pipes (pressure and non-pressure)

First published in part as AS A35—1957.
AS A124 first published 1962.
AS A35—1957 revised and redesignated AS 1342—1973.
AS A124—1962 revised and redesignated AS 1392—1974.
AS 1342—1973 and AS 1392—1974 revised, amalgamated and redesignated AS 4058—1992.
Incorporating: Amdt 1—1996

PUBLISHED BY STANDARDS AUSTRALIA (STANDARDS ASSOCIATION OF AUSTRALIA) 1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 7730 4

PREFACE

This Standard was prepared by the Standards Australia Committee on Concrete Pipes, as a revision and amalgamation of AS 1342—1973, *Precast concrete drainage pipes* and AS 1392—1974, *Precast concrete pressure pipes*. The revision is a logical consequence of the revision of AS CA33—1962, *Concrete Pipe Laying Code*, published as AS 3725—1989, *Loads on buried concrete pipes*.

In carrying out its task, the Committee has taken the opportunity to clarify areas of uncertainty in the previous Standards, in particular the definitions of terms used, the methods of measuring geometric properties of the pipes and the criteria for acceptance or rejection of defects.

The increasing use of certain blended cements and chemical admixtures in concrete products and structures has been recognized by the Committee and allowance for the use of such components in concrete pipes included for the first time.

Load classifications have been rationalized and extended to cover both larger pipe sizes and higher load classes in line with recent trends in this direction.

Requirements for sampling, testing and the determination of compliance have been expanded with requirements for routine testing during manufacture being included for the first time. In deciding to incorporate such requirements as a normative part of the Standard, the Committee took account of the need in the water supply, sewerage and drainage industries for a standardized approach to this facet of quality control. It was recognized that since concrete pipe manufacturing technology is well established, a sampling and testing regime could be designed to apply to all existing manufacturing processes and thereby be relevant to all Australian manufacturers. The usefulness of this edition has thus been increased over the two previous Standards from the point of view of purchasers in that it now represents the basis for a complete purchase specification. However, users of the Standard may, via referencing in regulation, contracts, third-party certification or the like, decide not to implement the sampling scheme.

Users of the Standard are reminded that the means for determining whether a pipe, manufactured in accordance with this Standard, is suitable for a particular loading application, are contained in AS 3725.

© Copyright - STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

CONTENTS

SECTION	1	SCOPE AND	CENEDAL
SECTION	1	SCOPE AND	GENEKAL

1.1	SCOPE	4
1.2	REFERENCED DOCUMENTS	4
1.3	DEFINITIONS	4
1.4	CLASSIFICATION OF PIPES	5
1.5	MARKING	6
SECTIO	N 2 MATERIALS	
2.1	SCOPE OF SECTION	8
2.2	CONCRETE MATERIALS	8
2.3	REINFORCEMENT	8
2.4	JOINT MATERIALS	8
SECTIO	N 3 MANUFACTURE, HANDLING AND STORAGE	
3.1	MEASUREMENT OF DIMENSIONS	9
3.2	TOLERANCES	9
3.3	WORKMANSHIP AND FINISH	10
3.4	HANDLING AND STORAGE	12
SECTIO	N 4 SAMPLING AND TESTING	
4.1	GENERAL	14
4.2	TYPE TESTING	14
4.3	ROUTINE SAMPLING AND TESTING	16
APPENI	DICES	
А	SAMPLING SCHEME FOR ROUTINE TESTING	17
В	PURCHASING GUIDELINES	20
С	METHODS FOR LOAD TESTING OF PIPES	21
D	METHODS FOR PRESSURE TESTING OF RUBBER RING JOINTED PIPES .	25
Е	GUIDE TO CONCENTRATION LIMITS APPLICABLE TO SOME	
	CONSTITUENTS OF THE BURIED ENVIRONMENT	28
F	METHODS FOR ABSORPTION TESTING OF CONCRETE PIPES	29
G	METHODS FOR COVER TESTING OF REINFORCED CONCRETE PIPES	31
Н	METHOD FOR JOINT ASSEMBLY TESTING OF RUBBER RING JOINTED	
	CONCRETE PIPES	33



This is a free preview. Purchase the entire publication at the link below:

Product Page

S Looking for additional Standards? Visit Intertek Inform Infostore

> Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation