This is a free page sample. Access the full version online.

AS 3571—1989

Australian Standard®

Glass filament reinforced thermosetting plastics (GRP) pipes—Polyester based—Water supply, sewerage and drainage applications

[Title allocated by Defence Cataloguing Authority: PIPE, PLASTIC (Thermosetting, glass fibre, reinforced, polyester based; water supply, sewerage, and drainage applications) NSC 4170]

This is a free page sample. Access the full version online.

This Australian Standard was prepared by Committee PL/44, Reinforced Plastics Products. It was approved on behalf of the Council of Standards Australia on 11 July 1988 and published on 6 February 1989.

The following interests are represented on Committee PL/44:

Composites Institute of Australia

Confederation of Australian Industry

Department of Local Government, Qld

Electricity Commission of New South Wales

Electricity Trust of South Australia

Engineering and Water Supply Department, S.A.

Melbourne and Metropolitan Board of Works

Plastics Institute of Australia

Public Works Department, N.S.W.

Queensland Electricity Commission

Queensland Water Resources Commission

Rural Water Commission, Vic.

State Electricity Commission of Victoria

University of New South Wales

Water Authority of Western Australia

Water Board, Sydney

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which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

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 87081.

This is a free page sample. Access the full version online.

AS 3571—1989

Australian Standard®

Glass filament reinforced thermosetting plastics (GRP) pipes—Polyester based—Water supply, sewerage and drainage applications

[Title allocated by Defence Cataloguing Authority: PIPE, PLASTIC (Thermosetting, glass fibre, reinforced, polyester based; water supply, sewerage, and drainage applications) NSC 4170]

First published as AS 3571–1989.

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

ISBN 0 7262 5219 0

This is a free page sample. Access the full version online.

PREFACE

This Standard was prepared by the Standards Australia Committee on Reinforced Plastics Products under the direction of the Plastics Standards Board. It is based on the work of an ISO Technical Committee, ISO/TC 138/SC 6, with specifications for water, sewerage and drainage applications combined in one document. Reference to relevant ASTM Standards and to AS 2634, *Chemical plant equipment made from glass fibre reinforced plastics (GRP) based on thermosetting resins*, was made during the preparation of this Australian Standard. The Standard is performance based and covers all methods of manufacture. GRP pipe fittings are not included in this Standard.

When drafting this document the Committee was made aware of statements that had been made regarding the possible carcinogenicity of certain man–made mineral fibres. The term 'glass filament' has been adopted to accurately describe the type of reinforcement used in products complying with this Standard. These materials characteristically have a diameter greater than 10 micrometres. The World Health Organization's International Agency for Research on Cancer (I.A.R.C.) designates 'glass filaments' as not classifiable with regard to human carcinogenicity.

© 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.

This is a free page sample. Access the full version online.

CONTENTS

Page

FOREWORD 4

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE 5
1.2 APPLICATION 5
1.3 REFERENCED DOCUMENTS 5
1.4 DEFINITIONS 6
1.5 NOTATION 6

SECTION 2. GENERAL REQUIREMENTS

2.1 COMPOSITION 7
2.2 PIPE WALL STRUCTURE 7
2.3 MAXIMUM SERVICE TEMPERATURE 7
2.4 CLASSIFICATION 7
2.5 SURFACE HARDNESS 7
2.6 SURFACE FINISH 7
2.7 EFFECT ON WATER QUALITY 8
2.8 REPAIR OF DEFECTS 8
2.9 MARKING 8

SECTION 3. DIMENSIONAL REQUIREMENTS

3.1 DIAMETER 9
3.2 WALL THICKNESS 9
3.3 LENGTH 9
3.4 SQUARENESS OF ENDS 9

SECTION 4. PERFORMANCE REQUIREMENTS

4.1 LONG–TERM TESTS 11
4.2 QUALITY CONTROL TESTS 12

SECTION 5. JOINTS

5.1 GENERAL 15
5.2 JOINTS – SPIGOTS AND SOCKETS, COLLARS 15
5.3 RUBBER RINGS 15
5.4 JOINT REQUIREMENTS 15
5.5 JOINT PROPERTIES 15
5.6 TEST REQUIREMENTS 15

APPENDICES

A DETERMINATION OF COMPLIANCE OF A LOT 16
B GUIDE TO SURFACE DEFECTS 17
C ENQUIRY, TENDERING AND ORDERING INFORMATION 19
D DESIGN PRINCIPLES USED FOR DETERMINING RELATIONSHIP BETWEEN LONG–TERM AND SHORT–TERM PERFORMANCES OF GRP PIPE 20

SAI GLOBAL

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

Product Page

Looking for additional Standards? Visit Intertek Inform Infostore

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