

Australian Standard[®]

**Guidelines for the application of
polyethylene sleeving to ductile iron
pipelines and fittings**

This Australian Standard was prepared by Committee WS/16, Cast Iron Pressure Pipes and Fittings. It was approved on behalf of the Council of Standards Australia on 10 July 1989 and published on 11 December 1989.

The following interests are represented on Committee WS/16:

Board of Works, Melbourne
Brisbane City Council
Confederation of Australian Industry
Department of Housing and Construction
Department of Local Government, Qld
Engineering and Water Supply Department, S.A.
Hunter Water Board
Institution of Engineers, Australia
Metal Trades Industry Association of Australia
Plastics Institute of Australia
Public Works Department, N.S.W.
Rural Water Commission of Victoria
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which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.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 88072 (in part).

AS 3681—1989

Australian Standard[®]

**Guidelines for the application of
polyethylene sleeving to ductile iron
pipelines and fittings**

First published as AS 3681—1989.

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

ISBN 0 7262 5876 8

PREFACE

This Standard was prepared by the Standards Australia Committee on Cast Iron Pressure Pipes and Fittings, and is based on current practices used in protecting underground ductile iron pipes and fittings from corrosion in aggressive soils.

CONTENTS

	<i>Page</i>
1 SCOPE	1
2 GENERAL	3
3 PIPES	3
4 FITTINGS	6
5 PRECAUTIONS FOR SLEEVING APPLICATION	10

© 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.

STANDARDS AUSTRALIA

Australian Standard

Guidelines for the application of polyethylene sleeving to ductile iron pipelines and fittings.

1 SCOPE. This Standard gives guidance on the application of polyethylene sleeving to ductile iron pipelines and fittings when installed underground.

2 GENERAL. Pipes and fittings are sleeved individually prior to laying. Pre-sleeving a number of pipes before installation is not recommended, but where it does occur, provision for suitable storage of sleeved pipes (such as sandbags) is recommended to prevent sleeving damage. Before application of the sleeving, the surface of the pipe or fitting is to be free of foreign material such as clay. Where site

conditions significantly increase the risk of sleeving penetration, consideration should be given to double wrapping i.e. where cast in-situ anchor-blocks are used.

Adhesive tape is used for sealing the sleeving to the surface of the pipe or fitting.

3 PIPES. (Spigot socket joints).

3.1 Sleeving configuration. The preferred configuration features a single overlap joint, which isolates individual pipe lengths, with a fold on the top part of the pipe. This is shown in Figures 3.1 and 3.2.

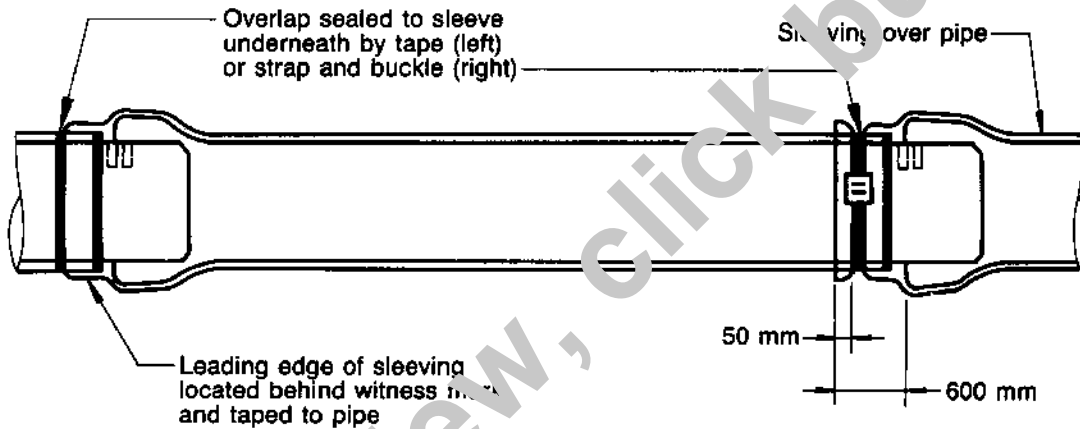


FIGURE 3.1 RECOMMENDED SLEEVING CONFIGURATION

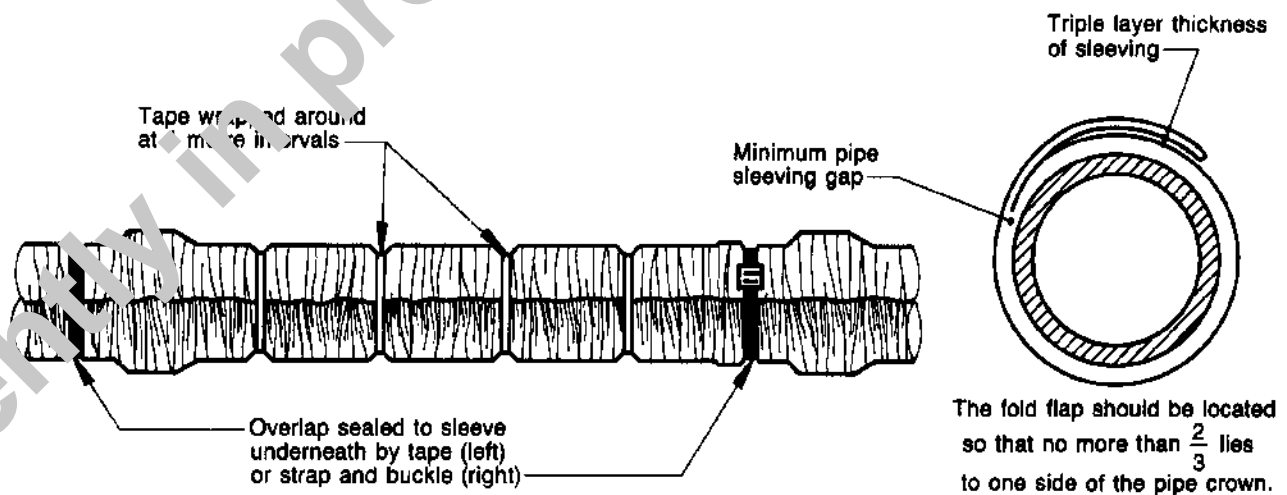


FIGURE 3.2 FINAL APPEARANCE SHOWING CLOSE CONTOURED FIT