





Design charts for water supply and sewerage



AS 2200-2006

This Australian Standard[®] was prepared by Committee PL-045, Plastics Pipe Systems Test and Calculation Methods. It was approved on behalf of the Council of Standards Australia on 13 October 2005.

This Standard was published on 16 January 2006.

The following are represented on Committee PL-045: Australian Chamber of Commerce and Industry Australian Nuclear Science and Technology Organisation CSIRO Manufacturing and Infrastructure Technology Certification Interests (Australia) Energy Networks Association Engineers Australia Master Plumbers, Gasfitters and Drainlayers New Zealand New Zealand Water and Waste Association Plastics Industry Pipe Association of Australia Plastics New Zealand Water Services Association of Australia

This Standard was issued in draft form for comment as DR 00340.

Keeping Standards up-to-date

Ensure you have the latest versions of our publications and keep up-to-date about Amendments, Rulings, Withdrawals, and new projects by visiting: www.standards.org.au

Design charts for water supply and sewerage

First published 1978. Reprinted 1982. Second edition 2006. Reissued incorporating Amendment No 1 (April 2009). Reissued incorporating Amendment No 2 (April 2024).

© Standards Australia 2024

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Published by Standards Australia GPO Box 476, Sydney, NSW 2001, Australia

Preface

This Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee, PL-045, Plastics pipe systems test and calculation methods to supersede AS 2200:1978.

Amendment No. 2 to this Standard was prepared by the Australian members of the Joint Standards Australia/Standards New Zealand Committee PL-021, PVC, ABS and Polyamide Pipe Systems.

A This Standard incorporates Amendment No. 1 (April 2009) and Amendment No. 2 (April 2024). The start and end of changes introduced by the Amendment are indicated in the text by tags including the Amendment number.

After consultation with Stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian, rather than an Australian/New Zealand Standard.

The objective of this Standard is to provide designers of pipelines for the conveyance of water and sewerage, with a set of charts and mathematical formulae for the determination of flow characteristics.

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.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard. Other notes are for information and guidance only.

iii

Contents

Pr	reface	ii
Fo	preword	iv
1	Scope	
2	Derivation of charts	
	2.1 Formulae	1
	2.2 Kinematic viscosity of water at various temperatures	
3	Hydraulic design of pipes—Colebrook-White formula	2
4	Hydraulic design of pipes—Manning formula	
5	Depth/flow characteristics of pipes part full	2
6	Resistance and roughness coefficients	
Ар	ppendix A (informative) Examples—Colebrook-White charts	
Amendment control sheet		



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