

AS/NZS 4765:2007

AS/NZS 4765:2007

Australian/New Zealand Standard™

**Modified PVC (PVC-M) pipes for  
pressure applications**



#### **AS/NZS 4765:2007**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee PL-021, PVC, ABS and Polyamide Pipe Systems. It was approved on behalf of the Council of Standards Australia on 29 June 2007 and on behalf of the Council of Standards New Zealand on 27 July 2007.  
This Standard was published on 20 September 2007.

---

The following are represented on Committee PL-021:

Australian Chamber of Commerce and Industry  
Certification Interests (Australia)  
CSIRO Manufacturing and Infrastructure Technology  
Energy Networks Association  
Engineers Australia  
New Zealand Local Government  
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

---

#### **Keeping Standards up-to-date**

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at [www.standards.com.au](http://www.standards.com.au) or Standards New Zealand web site at [www.standards.co.nz](http://www.standards.co.nz) and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia or Standards New Zealand at the address shown on the back cover.

---

AS/NZS 4765:2007

Australian/New Zealand Standard™

## **Modified PVC (PVC-M) pipes for pressure applications**

Originated as AS/NZS 4765(Int):2000.  
This edition 2007.

### **COPYRIGHT**

© Standards Australia/Standards New Zealand

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.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 8383 X

## PREFACE

This Australian/New Zealand Standard was prepared by Committee PL-021, PVC, ABS and Polyamide Pipe Systems, to supersede AS/NZS 4765 (Int):2000.

The objective of this Standard is to outline minimum requirements for the manufacture and performance of PVC-M pipes for pressure applications for use by manufacturers, specifiers and purchasers of these products.

The objective of this revision is to update and replace the Interim Standard with a full Australian/New Zealand Standard.

This Standard is intended to apply to PVC-M pipes that exhibit an enhanced level of toughness and ductility as a consequence of the addition of impact modifiers and provides a consistent means of assessment of quality and performance, together with a common design criterion. A comprehensive series of tests are given with the intention of ensuring PVC-M pipe has a combination of high strength and ductility over a wide range of service conditions.

In the preparation of this Standard, consideration has been given to international best practice.

The test criteria specified apply to pipes at the time of manufacture. Pipes or fittings that have been in service might not meet the same performance requirements.

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.

Notes to text are for information and guidance only.

## CONTENTS

	<i>Page</i>
FOREWORD.....	5
 SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE .....	6
1.2 MEANS FOR DEMONSTRATING COMPLIANCE .....	6
1.3 REFERENCED DOCUMENTS .....	6
1.4 DEFINITIONS .....	7
1.5 NOTATION .....	8
1.6 CLASSIFICATION .....	9
 SECTION 2 GENERAL REQUIREMENTS	
2.1 SCOPE .....	10
2.2 COMPOSITION .....	10
2.3 DIMENSIONS.....	10
2.4 COLOUR.....	10
2.5 EFFECT ON WATER .....	11
2.6 FREEDOM FROM DEFECTS .....	11
2.7 SOLVENT CEMENTS.....	11
2.8 ELASTOMERIC JOINTING SEALS .....	11
2.9 WITNESS MARK .....	11
 SECTION 3 PERFORMANCE REQUIREMENTS	
3.1 SCOPE OF SECTION .....	12
3.2 TESTS ON PIPES .....	12
3.3 TESTS ON ELASTOMERIC SEAL JOINTS.....	13
 SECTION 4 PIPES	
4.1 SCOPE OF SECTION .....	16
4.2 DIAMETER AND WALL THICKNESS.....	16
4.3 LENGTH.....	16
4.4 PIPE SPIGOT ENDS.....	17
4.5 SOCKETS FORMED ON PIPES .....	17
4.6 MARKING .....	17
4.7 PACKAGING, STORAGE AND TRANSPORTATION .....	18
 SECTION 5 ELASTOMERIC SEAL JOINTS	
5.1 SCOPE OF SECTION .....	22
5.2 JOINT DESIGN .....	22
5.3 DEPTH OF ENGAGEMENT .....	22
5.4 SOCKET DEPTH.....	22
 SECTION 6 POST-FORMED BENDS AND COUPLINGS	
6.1 SCOPE OF SECTION AND GENERAL.....	23
6.2 SOCKETS .....	23
6.3 BEND RADIUS.....	23
6.4 SPIGOT LENGTHS .....	23
6.5 BEND ANGLE.....	23
6.6 MARKING .....	23

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
-