

AS/NZS 4401(Int):1999

ISO 8770:1991

(Expires 5 August 2003)

(Incorporating Amendment No. 1)

AS/NZS 4401(Int)

Interim

Australian/New Zealand Standard™

**High-density polyethylene (PE-HD)
pipes and fittings for soil
and waste discharge (low and high
temperature) systems
inside buildings-Specifications**



Standards Australia



STANDARDS
NEW ZEALAND
Pūranga Aotearoa

AS/NZS 4401(Int):1999

This Interim Joint Australian/New Zealand Standard was prepared by Joint Technical Committee PL-006, Polyolefin pipe systems. It was approved on behalf of the Council of Standards Australia on 13 October 1998 and on behalf of the Council of Standards New Zealand on 8 June 1998. It was published on 5 August 1999.

The following interests are represented on Committee PL-006:

AUSTAP

Australian Gas Association
Australian Association of Certification Bodies
Australian Chamber of Commerce and Industry
CSIRO Division of Building, Construction and Engineering
Department of Land and Water Conservation, N.S.W.
Gas Association of New Zealand
Institution of Engineers Australia
Irrigation Association of Australia
Local Government New Zealand
Master Plumbers Australia
New Zealand Society of Master Plumbers and Gasfitters
New Zealand Water and Waste Association
Plastics and Chemicals Industries Association, Australia
Plastics Institute of 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 Standards may also be withdrawn.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 Australia web site at www.standards.com.au or Standards New Zealand web site at 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 International or Standards New Zealand at the address shown on the back cover.

AS/NZS 4401(Int):1999
(Incorporating Amendment No. 1)

Interim Australian/New Zealand Standard™

High-density polyethylene (PE-HD) pipes and fittings for soil and waste discharge (low and high temperature) systems inside buildings-Specifications

First published as AS/NZS 4401(Int):1999
Reissued incorporating Amdt No. 1 (December 2001)

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 International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 2374 8

PREFACE

This Interim Joint Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee PL/6, Polyolefin Pipe Systems. This Interim Standard is based on and reproduced from ISO 8770:1991, *High-density polyethylene (PE-HD) pipes and fittings for soil waste discharge (low and high temperature) systems inside buildings—Specifications*.

This Standard incorporates Amendment No. 1 (December 2001). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

A number of variations to ISO 8770:1991, which are necessary for Australian/New Zealand conditions, have been made in this Interim Standard. These variations are listed in Annex ZZ, and are indicated throughout the text by a marginal bar set adjacent to the varied text, table, figure or part thereof.

As this Interim Standard is based on, but not equivalent to, and is reproduced from an International Standard, the following applies:

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text ‘this International Standard’ should read ‘this Australian/New Zealand Standard’.
- (c) A full point substitutes for a comma when referring to a decimal marker.

In this Standard, statements expressed in mandatory terms in notes to figures are deemed to be requirements of the Standard.

The term normative has been used in this Standard to define the application of the annex to which it applies. A normative annex is an integral part of a Standard.

Standards Australia/Standards New Zealand invite comment on this Interim Standard from persons and organizations concerned with the subject. The Joint Committee will monitor all comment as it is received. The date of expiry for comment is nominally 2 years after publication, but the status of the Interim Standard will be reviewed upon publication by ISO of the next edition of the Standard. At that time the Interim Standard will be confirmed, withdrawn or revised in the light of public comment received.

CONTENTS

	<i>Page</i>
1 SCOPE	1
2 NORMATIVE REFERENCES	1
3 SYMBOLS	2
4 MATERIAL	2
5 GEOMETRICAL CHARACTERISTICS	2
6 MECHANICAL TEST REQUIREMENTS	6
7 PHYSICAL TEST REQUIREMENTS	6
8 FUNCTIONAL TEST REQUIREMENTS	6
9 JOINTING	7
10 DELIVERY CONDITIONS	7
11 MARKING	7
 APPENDICES	
A DEFINITION OF DOMESTIC WASTE WATERS	9
B OVEN TEST FOR FITTINGS	9
C WATERTIGHTNESS TEST	10
D AIRTIGHTNESS TEST	11
E ELEVATED-TEMPERATURE CYCLING TEST—1 500-CYCLE TEST	13
F ELEVATED-TEMPERATURE CYCLING TEST—5-CYCLE TEST	15
G CYCLING TESTS—GENERAL INFORMATION FOR BOTH 1 500-CYCLE AND 5-CYCLE TESTS	17
H EQUIVALENT INTERNATIONAL STANDARDS	18
ZZ VARIATIONS TO ISO 8770:1991 FOR AUSTRALIA/NEW ZEALAND CONDITIONS	19

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
-