

Australian Standard[®]

Personal flotation devices

Part 3: Test methods

STANDARDS
Australia



This Australian Standard® was prepared by Committee CS-060, Buoyancy Aids. It was approved on behalf of the Council of Standards Australia on 29 October 2008. This Standard was published on 2 December 2008.

The following are represented on Committee CS-060:

- AWTA Textile Testing
 - Australian Canoeing
 - Australian Chamber of Commerce and Industry
 - Australian Industry Group
 - Australian Marine Industries Federation
 - Australian Maritime Safety Authority
 - Australian Power Boat Association
 - Boating Industry Association of Victoria
 - Business New Zealand
 - Certification Interests
 - Department of Defence (Australia)
 - Department of Tourism, Sport and Recreation, NSW
 - Marine Safety Victoria
 - Marine Safety Queensland
 - National Marine Safety Committee
 - New South Wales Water Ski Association
 - Office of Consumer Business Affairs, SA
 - Office of Fair Trading NSW Consumer Protection Agency
 - Tasmanian Maritime Network
 - Yachting Australia
-

This Standard was issued in draft form for comment as DR 06151.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

Keeping Standards up-to-date

Australian Standards® are living documents that 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Standards may also be withdrawn.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 that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

Australian Standard[®]

Personal flotation devices

Part 3: Test methods

First published as AS 4758.3—2008.

COPYRIGHT

© Standards Australia

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

ISBN 0 7337 8967 6

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CS-060, Buoyancy Aids.

The objective of this Standard is to provide manufacturers with the methods for testing the performance of personal flotation devices (PFDs).

This Standard is Part 3 of a three-part series dealing with personal flotation devices. The other parts are as follows:

Part 1: General requirements

Part 2: Materials and components—Requirements and test methods

CONTENTS

	<i>Page</i>
SECTION 1 SCOPE AND GENERAL	
1.1 SCOPE.....	4
1.2 REFERENCED DOCUMENTS.....	4
1.3 DEFINITIONS.....	4
SECTION 2 RESISTANCE TO WATER AND OIL	
2.1 RESISTANCE TO WATER	5
2.2 RESISTANCE TO OIL.....	5
SECTION 3 STRENGTH	
3.1 HORIZONTAL STRENGTH.....	7
3.2 VERTICAL STRENGTH	8
SECTION 4 BUOYANCY	
4.1 PRINCIPLE.....	12
4.2 APPARATUS	12
4.3 PROCEDURE.....	12
4.4 REPORT.....	12
SECTION 5 INFLATABLE BUOYANCY CHAMBERS	
5.1 PRINCIPLE	13
5.2 APPARATUS	13
5.3 PROCEDURE.....	13
5.4 REPORT.....	13
SECTION 6 GENERAL PERFORMANCE	
6.1 TEMPERATURE CYCLING	14
6.2 ORAL INFLATION	14
6.3 DOUBLE INFLATION	15
6.4 INADVERTENT INFLATION.....	15
SECTION 7 IN-WATER PERFORMANCE	
7.1 GENERAL	17
7.2 TEST OBSERVER AND TEST SUBJECTS	17
7.3 DOWNING.....	18
7.4 WATER ENTRY	19
7.5 SELF RIGHTING	19
7.6 VERTICAL STABILITY	21
7.7 IN-WATER STABILITY	22
7.8 FREEBOARD.....	22
7.9 SPRAY HOOD CARBON DIOXIDE LEVEL.....	24
7.10 AUTOMATIC INFLATION.....	24

STANDARDS AUSTRALIA

**Australian Standard
Personal flotation devices****Part 3: Test methods**

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies the methods of test for personal flotation devices (PFDs) with buoyancy classifications of level 275, level 150, level 100 and level 50 suitable for use by adults and children.

1.2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard.

AS

- | | |
|--------|---|
| 3570 | Automotive diesel fuel |
| 4758 | Personal flotation devices |
| 4758.1 | Part 1: General requirements |
| 4758.2 | Part 2: Materials and components— Requirements and test methods |

ISO

- | | |
|--------|---|
| 2768 | General tolerances |
| 2768.1 | Part 1: Tolerances for linear and angular dimensions without individual tolerance indications |

1.3 DEFINITIONS

For the purpose of this Standard, the definitions given in AS 4758.1 and AS 4758.2 apply.