

DR 05445

AS 3542(Int)—1993
(Expires 16 August 1995)

WITHDRAWN ~~AS~~ SEE AMENDMENT.....
OCTOBER 1996

OK BY
AS 3542-1996

Interim Australian Standard®

**Small pleasure boats—Waste water
retention and treatment—Toilet
retention systems**



STANDARDS AUSTRALIA



This Interim Australian Standard was prepared by Committee CS/1, Small Pleasure Boats. It was approved on behalf of the Council of Standards Australia on 3 May 1993 and published on 16 August 1993.

The following interests are represented on Committee CS/1:

Aluminium Development Council
Australian Boating Industry Association
Australian Corrosion Association
Australian Customs Service
Australian Maritime Safety Authority
Australian Yachting Federation
Boat Owners Association of N.S.W.
Department of Business and Consumer Affairs, N.S.W.
Department of Defence
Department of Transport, Qld
Institute of Marine Engineers
Maritime Services Board of N.S.W.
Police Department, N.S.W.
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This Standard was issued in draft form for comment as DR 92126.

STANDARDS AUSTRALIA

Amendment No. 1
to
AS 3542(Int)—1993
Small pleasure boats—Waste water retention and treatment
—Toilet retention systems

REVISED TEXT

The 1993 edition of AS 3542(Int) is amended as follows; the amendment should be inserted in the appropriate place.

SUMMARY: This Amendment applies to the expiry date

Published on 5 October 1995.

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1995

Front cover

Delete (Expires 16 August 1995)

Insert (Expires 16 August 1996)



AS 3542(Int)—1993

Interim Australian Standard®

**Small pleasure boats—Waste water
retention and treatment—Toilet
retention systems**

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PREFACE

This Interim Standard was prepared by the Standards Australia Committee on Small Pleasure Boats following a request from the Maritime Services Board of N.S.W.

It is based on the amalgamation of two International Standards on related subjects with the addition of material relevant to the types of sewerage systems used in Australia.

The body of the text is based on ISO/DIS 8099-1, *Small craft—Waste water retention and treatment—Part 1: Toilet retention systems*. Appendix A is identical to and reproduced from ISO 4567:1978, *Shipbuilding—Yachts—Waste water fittings*.

At the time of publication ISO 8099 was in the course of revision and the changes to the International Standard proposed by Australia are incorporated into this Interim Australian Standard. It is anticipated that the revision of ISO 8099 will be completed prior to the expiry of this Interim Standard and the proposed new edition of ISO 8099-1 will eventually be adopted in Australia as a replacement for this Interim Standard.

Standards Australia invites comment on this Interim Standard from persons and organizations concerned with this subject. The date of expiry for comment is two years after publication at which time this Interim Australian Standard will either be confirmed, withdrawn or revised in the light of public comment.

During the life of this document the Committee will monitor all comment as it is received.

Attention is drawn to the fact that this document is an Interim Australian Standard and should be regarded as a developmental Standard and liable to future alteration.

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STANDARDS AUSTRALIA**Australian Standard****Small pleasure boats—Waste water retention and treatment—
Toilet retention systems**

1 SCOPE This Interim Standard specifies requirements for the design, construction and installation of sanitation systems designed to hold human waste temporarily prior to disposal on small craft of overall length from 10 m up to and including 24 m. It is applicable to a retention system solely for the storage of sewage and flushing water.

NOTE: A typical arrangement of components is shown in Figure 1.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1722 Pipe threads of Whitworth form

1722.2 Part 2: Fastening pipe threads

1799 Small Pleasure Boats Code

1799.3 Part 3: Engineering

US Military Specification

MIL-C-27487E Coupling halves, quick disconnect—Cam-locking type

3 DEFINITIONS For the purpose of this Standard, the definitions below apply.

3.1 Sewerage system—An installation which receives, treats and facilitates the disposal of sewage.

3.2 Retention system—System comprising a holding tank with all necessary fittings, to provide for the reception, venting and pumping out of sewage.

3.3 Black water—Combination of sewage and flushing water.

3.4 Sewage—Biological wastes of the human body.

4 GENERAL REQUIREMENTS The system shall be designed to function at ambient air pressure and temperature. It shall be capable of operation throughout an ambient temperature range of +1°C to +60°C and shall withstand, when empty, an ambient temperature range of -30°C to 60°C.

The system shall withstand the pressure test and suction test in accordance with Clause 9.

Holding tanks should be of sufficient size for the maximum number of persons likely to be accommodated.

NOTE: Typically 15 L per day is allowed for each berthed person or 7 L per day for each unberthed person on board.

5 MATERIALS

5.1 General Materials in contact with sewage shall be resistant to the effects of—

- (a) black water and sewage-deodorant;
- (b) fresh or salt flush-water;
- (c) a marine environment;
- (d) disinfectants;