

AS 1799.1:2021



STANDARDS
Australia



Small craft

Part 1: General requirements for power boats

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AS 1799.1:2021

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- Australian Sailing
- Boating Industry Association
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- Maritime Safety Victoria
- NSCA Foundation
- NSW Police Force
- Qld Transport & Main Roads
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Part 1: General requirements for power boats

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Preface

This Standard was prepared by the Standards Australia Committee CS-114, Small Craft up to 35m, to supersede AS 1799.1—2009, *Small craft, Part 1: General requirements for power boats*.

The objective of this Standard is to provide requirements for maximum load, persons and power capacities, reserve buoyancy, stability, fire protection, and other safety aspects for powered craft up to 15 m in length used as recreational boats.

Apart from a general update and editorial review, this edition incorporates a number of changes in requirements compared with the 2009 edition, the most significant of which are as follows:

- (a) The motor weights in [Table 2.1](#) have been revised to match actual equipment available on the Australian market.
- (b) The definition of “static float plane” has been aligned with the definition in the latest version of ABYC H-05.
- (c) The concept of “total persons mass” has been introduced in line with Edition 5 of the *National Standard for the Australian Builders Plate*.
- (d) A new warning label has been added and applies if the open waters maximum persons capacity has not been assessed.
- (e) The open waters stability requirements have been refined.
- (f) The requirements for determining maximum power capacity of outboard-powered boats have been aligned to the latest ABYC requirements, and the circumstances under which testing in accordance with [Appendix F](#) is required have been clarified.
- (g) The means by which a boat’s swamped flotation performance may be assessed have been expanded.

In addition, the use of figures and informative elements has been expanded to assist users to understand concepts within the Standard.

While AS 1799.1 is sometimes referenced in standards for commercial vessels, this Standard is intended to address the minimum safety requirements that apply when a boat is used recreationally, taking into account factors like typical patterns of usage and the anticipated competency of those on board a recreational boat.

Conformance with the following International Standards is deemed to satisfy the requirements of [Sections 2](#) to [6](#) of this Standard: ISO 8666, ISO 9094, ISO 11592-1, ISO 11812, ISO 12216, ISO 12217-1, ISO 12217-3, ISO 13590, ISO 14946, ISO 15084, ISO 21487. Satisfying the requirements of AS 1799.1 (this Standard) is based on conformance in full with all of the equivalent ISO standards, but not a combination of ISO standards and the requirements in this Standard. See [Clause 1.6](#) for the appropriate ISO Design Category.

The terms “normative” and “informative” are used 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.

Contents

Preface	ii
Section 1 Scope and general	1
1.1 Scope.....	1
1.2 Normative references.....	1
1.3 Terms and definitions.....	2
1.4 Symbols and abbreviated terms.....	10
1.5 Marking.....	11
1.5.1 Boat capacities.....	12
1.5.2 Open waters loading advice.....	12
1.5.3 Hull identification.....	12
1.6 ISO relationship.....	13
Section 2 Maximum capacities and buoyancy	14
2.1 Maximum load capacity for boats less than 6 m in length for protected waters.....	14
2.1.1 General.....	14
2.1.2 Outboard installations.....	14
2.1.3 Inboard installations.....	14
2.2 Maximum persons capacity for protected waters.....	15
2.2.1 General.....	15
2.2.2 Outboard installations.....	15
2.2.3 Inboard installations.....	16
2.3 Maximum persons capacity for open waters.....	16
2.4 Provision of seating and standing positions.....	17
2.5 Swamped flotation.....	17
2.5.1 Minimum swamped flotation.....	17
2.5.2 Use of flotation materials.....	17
2.5.3 Resistant flotation materials.....	17
2.5.4 Level flotation.....	18
2.5.5 Boats 6 m or more in length.....	18
2.5.6 Air compartments.....	18
2.6 Maximum power capacity.....	19
2.6.1 Determination of maximum power capacity for outboard installations.....	19
2.6.2 Determination of maximum power capacity for pontoon boats.....	21
2.6.3 Tiller steering outboard installations.....	21
2.6.4 Determination of maximum power capacity for inboard and sterndrive installations.....	22
2.6.5 Determination of maximum power capacity by test.....	22
2.6.6 Engine power rating.....	22
Section 3 Hull design	23
3.1 General arrangement.....	23
3.2 Hull drainage.....	23
3.2.1 Bailing devices.....	23
3.2.2 Compartments.....	23
3.2.3 Drain plugs.....	23
3.3 Decks.....	24
3.3.1 General.....	24
3.3.2 Footing.....	24
3.4 Self-draining cockpits and wells in weather decks.....	24
3.4.1 General design.....	24
3.4.2 Drain area.....	24
3.4.3 Drain design and construction.....	24
3.4.4 Drainage around hatches over engine compartments.....	25
3.5 Quick-draining cockpits, wells and recesses.....	25
3.5.1 General.....	25
3.5.2 Time to drain water.....	25

3.5.3	Freeing port area.....	26
3.5.4	Freeing port construction.....	26
3.6	Hatches and exterior doors.....	26
3.6.1	Design of hatches and exterior doors.....	26
3.6.2	Construction of hatches and exterior doors.....	26
3.6.3	Coamings and sills.....	26
3.6.4	Security of attachment of hatch covers.....	27
3.7	Exits from enclosed accommodation.....	27
3.8	Windshield and windows.....	27
3.9	Transom for outboard or sterndrive installations.....	27
3.10	Motor well.....	27
3.11	Boat hardware and fittings.....	28
3.11.1	General.....	28
3.11.2	Bow eye.....	28
3.11.3	Cleats, bollards and fairleads.....	28
3.11.4	Safety hand rails, handholds and reboarding.....	29
3.12	Lifting system.....	29
3.13	Dissimilar metals.....	29
Section 4	Cooking and heating systems.....	30
4.1	Liquefied petroleum gas (LP Gas) and compressed natural gas (CNG) systems.....	30
4.1.1	General.....	30
4.1.2	Gas detector.....	30
4.1.3	Appliances.....	30
4.2	Systems other than LP Gas or CNG.....	30
4.2.1	General.....	30
4.2.2	Appliances.....	30
4.3	Appliance design.....	30
4.3.1	Cooking appliances.....	30
4.3.2	Pilot flames.....	30
4.3.3	Water heaters.....	30
4.3.4	Cabin heaters.....	31
4.3.5	Refrigerators.....	31
Section 5	Stability.....	32
5.1	Personal water craft.....	32
5.2	Protected waters requirements for boats less than 6 m in length.....	32
5.2.1	General.....	32
5.2.2	Stability under static conditions.....	32
5.3	Protected waters requirements for boats 6 m or more in length and open waters requirements.....	33
5.3.1	General.....	33
5.3.2	Heeling test.....	33
5.3.3	Heeling moment.....	34
5.3.4	Requirements.....	34
5.4	Multihull boats.....	36
5.4.1	General.....	36
5.4.2	Freeboard.....	36
5.4.3	Heeling test.....	36
Section 6	Fire protection.....	37
6.1	Portable fire extinguishers.....	37
6.1.1	Selection.....	37
6.1.2	General.....	37
6.1.3	Large tanks.....	37
6.1.4	LP Gas or other flammable gases.....	37
6.1.5	Flammable liquids.....	37
6.1.6	Boats with accommodation.....	37
6.1.7	Location and mounting.....	37
6.2	Fixed fire extinguishing system.....	37

6.2.1	General.....	37
6.2.2	Activation.....	38
6.2.3	Test facility.....	38
6.3	Inboard engine compartments.....	38
Section 7	Owner's manual.....	39
7.1	General.....	39
7.2	Contents.....	39
Appendix A	(informative) Method for calculating maximum load capacity.....	41
Appendix B	(normative) Method for determination of required volume of flotation material.....	42
Appendix C	(normative) Assessment of level flotation.....	49
Appendix D	(normative) Bilge pumping.....	52
Appendix E	(normative) Tests for weathertightness and watertightness.....	54
Appendix F	(normative) Test for confirmation of maximum power capacity.....	55
Appendix G	(informative) Guide to the selection of portable fire extinguishers.....	59
Appendix H	(informative) Information for use with the National Standard for the Australian Builders Plate for Recreational Boats.....	61
Appendix I	(informative) Example of calculating maximum power, load and persons capacity.....	63
Bibliography	65

NOTES

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Section 1 Scope and general

1.1 Scope

This Standard sets out requirements for maximum load, persons and power capacities, reserve buoyancy, stability, fire protection, and other safety aspects for powered craft up to 15 m in length used as recreational boats. It does not apply to boats used for commercial purposes or exclusively for racing, nor to canoes, kayaks, inflatable boats, rigid inflatable boats, yachts or auxiliary yachts.

1.2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

NOTE Documents referenced for informative purposes are listed in the Bibliography.

AS 4594.1, *Internal combustion engines—Performance, Part 1: Standard reference conditions, declarations of power, fuel and lubricating oil consumption and test methods*

AS 4594.3, *Internal combustion engines—Performance, Part 3: Engines for land, rail-traction and marine use—Test measurements*

AS/NZS 1850, *Portable fire extinguishers—Classification, rating and performance testing*

AS/NZS 2080, *Safety glazing for land vehicles*

AS/NZS 2906, *Fuel containers—Portable—Plastics and metal*

AS/NZS 5263.0, *Gas installations, Part 0: General requirements*

AS/NZS 5601.2, *Gas installations, Part 2: LP Gas installations in caravans and boats for non-propulsive purposes*

ISO 8665, *Small craft — Machine propulsion reciprocating internal combustion engines — Power measurements and declarations*

ISO 9094, *Small craft—Fire protection*

ISO 10087, *Small craft — Craft identification — Coding system*

ISO 11592-1, *Small craft — Determination of maximum propulsion power rating using manoeuvring speed — Part 1: Craft with a length of hull less than 8 m*

ISO 11592-2, *Small craft — Determination of maximum propulsion power rating using manoeuvring speed — Part 2: Craft with a length of hull between 8 m and 24 m*

ABYC H-08, *Buoyancy in the Event of Flooding/Swamping*

Australian Maritime Safety Authority. *National Standard for Commercial Vessels (NSCV)*

International Maritime Organisation. Resolution MSC.81(70), *Revised Recommendation On Testing Of Life-Saving Appliances*

Transport and Infrastructure Council. *National Standard for the Australian Builders Plate for Recreational Boats*