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# Australian Standard 2198-1978

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## ANCHORS FOR SMALL BOATS

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**STANDARDS ASSOCIATION OF AUSTRALIA**  
*Incorporated by Royal Charter*



THE FOLLOWING SCIENTIFIC, INDUSTRIAL, WATER SAFETY AND governmental organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Aluminium Development Council  
Association of Australian Port and Marine Authorities  
Australian Water Skiers Association  
Australian Yachting Federation  
Boating Industry Association of Australia  
Boating Industry Association of New South Wales  
Boating Industry Association of Victoria  
Chief Secretary's Office, Victoria  
Commissioner of Police, N.S.W.  
Department of Defence  
Department of Transport  
Det Norske Veritas  
Institute of Marine Engineers  
Manufacturers of Anchors  
National Safety Council of Australia  
New South Wales Council for the Promotion of Safe Boating  
Royal Institution of Naval Architects  
Volunteer Coast Guard  
Volunteer Coastal Patrol

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This standard, prepared under the direction of Committee CS/1, Small Powered Boats, was approved on behalf of the Council of the Standards Association of Australia on 17 July 1978, and was published on 1 September 1978.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements to published standards, addressed to the head office of the Association, are welcomed.

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*This standard was issued in draft form for public review as DR 77150.*

**AUSTRALIAN STANDARD SPECIFICATION**

**ANCHORS  
FOR SMALL BOATS**

**AS 2198—1978**

First published ..... 1978

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## PREFACE

This standard was prepared by the Association's Subcommittee on Anchors for Small Boats. The standard supplements AS 1799, SAA Small Boats Code, which was prepared by the parent committee, Small Powered Boats.

The standard is intended to assist both anchor manufacturers and users by establishing a range of anchors of known performance and application for average conditions. It will also be available for use in regulations if required for that purpose.

Ideally, a test should have been established for the holding power of an anchor, and the required masses for each type and size of anchor based on holding power. However, it was clearly not possible to establish a standard holding ground, and even if this were possible, it could not take into account the known variation in holding power of different types of anchors in different holding grounds. Accordingly the standard was based on the recommendations of reputable anchor manufacturers, comparative tests which had previously been conducted by marine authorities, and user experience.

The standard takes into account the reduction in mass of 25 percent for high holding power anchors which is allowed by the Classification Societies. The committee considered making further allowances for ultra-lightweight anchors of high holding power, but sufficient documentary evidence was not available to support this action.

The standard relates the size of anchor to the length of boat, e.g. a size 9 anchor relates to a 9-metre boat. An anchor so provided should be suitable for average conditions. However, if the boat owner wishes to provide for storm conditions, he may purchase a heavier anchor or two anchors of known performance. The informative labelling will assist him in selecting the type and size of anchor which is suitable for his particular purposes.

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# STANDARDS ASSOCIATION OF AUSTRALIA

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## Australian Standard Specification for ANCHORS FOR SMALL BOATS

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**1 SCOPE.** This specification provides for a range of anchors suitable for use in small pleasure boats up to 13 m in length under average conditions.

The specification covers five types of anchor, each in six different sizes. The masses of the anchors for each size are specified together with relevant details of construction and testing.

Recommendations regarding the size and length of ground chain and cable to be used with the anchors are given in Appendix A. Recommendations on the use of anchors are given in Appendix B.

**2 TYPES.** For the purpose of this specification, the types of anchor shall be as follows (see Note):

- (a) Admiralty type—as shown in Fig. 1.
- (b) Stockless type—as shown in Fig. 2.
- (c) Spade type—as shown in Fig. 3.
- (d) Plough type—as shown in Fig. 4.
- (e) Grapnel type—as shown in Fig. 5.

Anchors of different design from those illustrated may be included under a particular type provided that they meet the essential design requirements of that type.

NOTE: The above types of anchor are also known under the following names:

- (a) Admiralty—Fishermans or Kedge
- (b) Stockless—Admiralty pattern stockless
- (c) Spade—Danforth (registered trademark)  
Meon (registered trademark)
- (d) Plough—C.Q.R. (registered trademark)

**3 SIZES.** Each type of anchor shall be provided in six sizes, with masses which are related to the anchor type and to the length of boat for which the anchor is considered to be suitable under average conditions. The size designation shall correspond to the length of the boat in metres. The sizes and minimum masses of the anchors shall be as shown in Table 1. The masses of the anchors shall be to the nearest kilogram.