



**ABYC H-40 July 2019**

**Hull Division Standard**

**Hull & Deck Structures Project  
Technical Committee**

*The ABYC Standards and Technical Information Reports for Small Craft are the product of a consensus of representatives of government, industry, and public sectors. It is intended solely to aid manufacturers and the marine community in the design, construction, equipage, and maintenance of small craft.*

*ABYC reviews each standard at least every five years at which time it may be reaffirmed, revised, or withdrawn. ABYC welcomes any written comments on the standards and technical information reports.*

## **ABYC H-40**

# **ANCHORING, MOORING, AND STRONG POINTS**



H-40  
7/19

### ***Origin and Development***

ABYC published the first edition of H-40, *Anchoring, Mooring, and Strong Points*, formerly *A-5, Anchoring, Mooring, Docking, Towing and Lifting*, in 1996, and it was revised in 2003, 2008, and 2014. The 2019 revised edition is the work of the Hull and Deck Structures Project Technical Committee.

### ***Hull & Deck Structures Project Technical Committee***

*This list represents the membership at the time the committee was balloted.*

Jim McCrory, *Chair*  
Marc Nugent, *Vice Chair*

Frank Beckerer  
Scott Berry

Charles Fort  
Dave Marlow  
Lou Novak

Gere Schmitt  
Eric Skaggs

Membership on a committee shall not in and of itself constitute an endorsement of ABYC or any document developed by the committee on which the member serves.

This standard, which is the result of extended and careful consideration of available knowledge and experience on the subject, was developed under procedures accredited as meeting the criteria for American National Standards and is intended to provide minimum performance requirements. The Project Technical Committee that approved the standard was balanced to ensure that individuals from competent and concerned interests have had an opportunity to participate.

ABYC's Project Technical Committee (PTC) meetings are open to the public. All inquiries regarding standards activity, interpretations, or meeting attendance should be directed to the ABYC Technical Department at [comments@abycinc.org](mailto:comments@abycinc.org).

ABYC and its committees do not "approve" or "endorse" any item, construction, or proprietary device.

### ***Request for Interpretations***

Upon written request the Hull and Deck Structures PTC will render an interpretation of any requirement of the standard. The request for interpretation should be clear and unambiguous. Requests should be presented to the PTC in a manner in which they may be answered in a "Yes" or "No" fashion.

The committee reserves the right to reconsider any interpretation when or if additional information that might affect it becomes available to the PTC. Persons aggrieved by an interpretation may appeal to the Committee for reinterpretation.

### **Summary of Revisions**

*This list indicates revisions to the standard when compared with the previously published version. It is not intended to be used independently of the standard. It should be used for informational purposes and as a guide to the official requirements contained in this standard. It is the responsibility of the user to read and understand the complete standard.*

The main changes in this revision of H-40, *Anchoring, Mooring, and Strong Points*, as compared with the previous edition dated 7/14, are:

- Scope and Purpose were combined
- Units of Measure section was added
- Compliance for loads was clarified
- Stowed anchor requirements were revised

### **DISCLAIMER**

ABYC technical board rules provide that all reports, including standards and technical information reports, are advisory only. Their use is entirely voluntary. They represent, as of the date of publication, the consensus of knowledgeable persons currently active in the field of small craft on performance objectives that contribute to small boat safety.

The American Boat & Yacht Council assumes no responsibility whatsoever for the use of, or failure to use, standards or technical information reports promulgated by it, their adaptation to any processes of a user, or any consequences flowing therefrom.

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## **H-40 ANCHORING, MOORING, AND STRONG POINTS**

*Based on ABYC's assessment of the existing technology, and the problems associated with achieving the goals of this standard, ABYC recommends compliance with this standard for all boats, associated equipment, and systems manufactured after July 31, 2020.*

### **40.1 SCOPE**

This standard applies to the design, construction, selection, and installation of fittings and equipment that are attached to or carried on boats for anchoring, mooring, docking, lifting, towing, and trailering of all boats.

#### **EXCEPTIONS:**

1. *Manually propelled boats.*
2. *Boats less than 2 hp and not intended to be anchored or towed.*
3. *Canoes and kayaks.*

#### **NOTES:**

1. *The operator is responsible for equipping the boat with ground tackle, mooring, and docking lines appropriate to the boat's intended use and area of operation.*
2. *This standard does not address loads that may be encountered on grounded or swamped boats.*

### **40.2 UNITS OF MEASURE**

Values stated without parentheses are the requirement. Values in parentheses are explanatory or approximate.

### **40.3 REFERENCES**

The following references form a part of this standard. Unless otherwise noted the latest version of referenced standards shall apply.

40.3.1 ABYC - American Boat & Yacht Council, Inc, 613 Third Street, Suite 10, Annapolis, MD 21403. Phone: (410) 990-4460. Fax: (410) 990-4466. Website: [www.abycinc.org](http://www.abycinc.org)

[ABYC E-2, Cathodic Protection](#)

[ABYC S-30, Outboard Engine and Related Weights](#)

### **40.4 DEFINITIONS**

For the purposes of this standard, the following definitions apply.

40.4.1 Anchor - a device designed to engage the bottom of a waterway, and through its resistance to drag, maintain a boat within a given radius, and capable of being deployed, and recovered.

40.4.2 Anchor Rode - the line, cable, chain, and other fittings connected to an anchor.

40.4.3 Anchor Rollers - rollers or fittings designed to assist in leading the anchor rode outboard, and/or to stow the anchor.

40.4.4 Backing Plate/Block - localized reinforcement of the deck or hull structure.

40.4.5 Boat Weight -

40.4.5.1 outboard - the boat weight includes the heaviest outboard engine(s) for which the boat is rated (see [ABYC S-30, Outboard Engine and Related Weights](#)), full permanent fuel tanks, full permanent water tanks, the heaviest production tolerances, and factory supplied, permanently installed, nonportable appurtenances.

40.4.5.2 sterndrive and inboard - the boat weight includes sterndrive(s) and engine(s), batteries, full fuel system, full permanent water tanks, the heaviest production tolerances, and factory supplied, permanently installed, nonportable appurtenances.