



ABYC H-32 July, 2008

**Hull Division Standard
Fuel & Ventilation 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 as a guide 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ABYC reviews each standard at least every five years at which time it may be reaffirmed, revised, or withdrawn.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-32

VENTILATION OF BOATS USING DIESEL FUEL



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This list represents the membership at the time the Committee was balloted.

NOTE: 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 was developed under procedures accredited as meeting the criteria for American National Standards. 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.

This standard, which is the result of extended and careful consideration of available knowledge and experience on the subject, is intended to provide minimum performance requirements.

ABYC's Project Technical Committee meetings are open to the public. All contact regarding standards activity, interpretations, or meeting attendance should be directed to the ABYC Technical Department at comments@abycinc.org.

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

REQUEST FOR INTERPRETATIONS

Upon written request, the Fuel & Ventilation Systems 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 which might affect it becomes available to the PTC. Persons aggrieved by an interpretation may appeal to the Committee for reinterpretation.

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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, 2009.

32.1 PURPOSE

This standard is a guide for the design, construction, and installation of ventilation systems of boats using diesel fuel, for the purpose of removal of fixed gaseous fire extinguishing system discharge, and/or combustion air, and/or any incidental additional uses.

32.2 SCOPE

This standard applies to boats using diesel fuel for electrical generation, mechanical power, or propulsion.

NOTE: *The United States Coast Guard's mandatory requirements for ventilation for boats with gasoline engines for propulsion or auxiliary machinery are found in 33 CFR, Subpart K, Sections CFR 183.601-183.630. Refer to the CFR for complete, current federal requirements. Additionally, see [ABYC H-2, Ventilation of Boats Using Gasoline](#).*

32.3 REFERENCES

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

32.3.1.1 ABYC - American Boat & Yacht Council, Inc., 613 Third St. Suite 10, Annapolis, MD 21403
Phone: (410) 990-4460 Fax: (410) 990-4466. Website: www.abycinc.org

[ABYC A-4, Fire Fighting Equipment](#)
[ABYC E-10, Storage Batteries](#)
[ABYC H-2, Ventilation of Boats Using Gasoline](#)
[ABYC H-5, Boat Load Capacity](#)

32.3.1.2 CFR - Code of Federal Regulations and other government publications. Obtain from the Superintendent of Documents, United States Government Information, PO Box 371954, Pittsburgh, PA 15250-7954. Phone: (202) 512-1800. Fax: (202) 512-2250. Website: www.access.gpo.gov. An excerpted edition of the CFR is also available from ABYC, Inc.

33 CFR Section 183, Subpart K

32.4 **DEFINITIONS** - *For the purposes of this standard, the following definitions apply.*

32.4.1 Maximum heeled waterline - The line of the water on the hull when the boat is inclined to:

32.4.1.1 for powerboats, an angle of seven (7) degrees, or

32.4.1.2 for sailboats, the level of sheer amidships.

32.4.2 Sailboat - A boat designed or intended to use sail as the primary means of propulsion.

32.4.3 Static Float Plane -

32.4.3.1 The plane below the most forward point and through which the maximum displacement of a boat exists without water coming aboard, when all openings such as drains, scuppers, centerboard trunks, hull or transom doors are considered sealed. (See [H-32 Figure 1](#).)

32.4.3.2 (Alternative) The float plane as defined above may be located above or below the sheer as long as it is equidistant above or below the most forward point and the stern. (See [H-32 Figure 2](#).)

32.4.4 Ventilation - The changing of air within a compartment by natural or mechanical means. Ventilation may be affected by dilution of contaminated air, by local exhaust of contaminated air, or by introduction of fresh air.