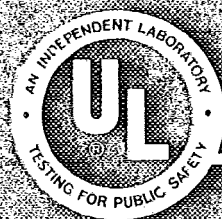


UL 1168

STANDARD *for* SAFETY

RECREATIONAL BOATS

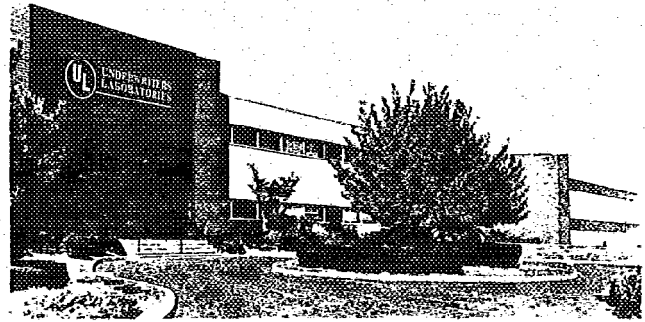


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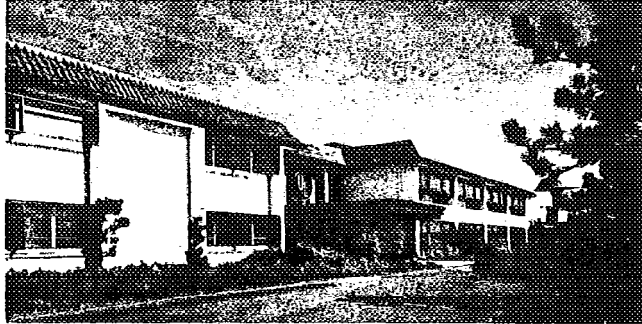
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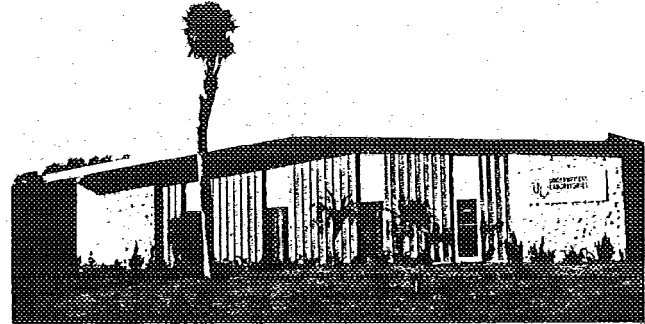
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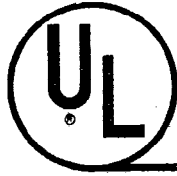
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A Catalog of UL Standards for Safety with costs and ordering information is also available from this office.

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February 5, 1986

**STANDARD FOR
RECREATIONAL BOATS**

UL 1168, FIRST EDITION

Accompanying this transmittal notice is a copy of the first edition of UL 1168.

THIS EDITION OF THE STANDARD IS NOW IN EFFECT.

The requirements are substantially in accordance with UL's bulletins on this subject dated June 11, 1985 and September 6, 1985. These bulletins are now obsolete and may be discarded.

Revised and/or additional pages may be issued from time to time.

FEBRUARY 5, 1986

1

UL 1168
STANDARD FOR
RECREATIONAL BOATS

FIRST EDITION

February 5, 1986

(1 — 2/5/86)

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TABLE OF CONTENTS

Foreword	4
General	5
1. Scope	5
2. Components	5
3. Units of Measurement	5
Installation and Performance	5
Hull Arrangement	5
4. General	5
5. Flotation and Powering	5
6. Bulkhead Watertightness Test	5
Electrical and Lighting Systems	6
7. General	6
8. Battery Movement Test	6
9. Conductor Terminations Tests	6
10. Motors and Motor-Operated Equipment Locked Rotor Test	6
11. Nonmetallic Materials Tests	6
Engines and Engine Exhaust Systems	7
12. General	7
13. Operation Test	7
Fuel Systems	7
14. General	7
15. Component Support Test	7
16. Fuel Tank Securement Test	7
17. Deck Load Test	8
18. Fuel Tank Drainage Test	8
19. Vent System Test	8
20. Fuel Tank Overfill Tests	8
21. Vent System Flame Arrest Test	9
22. Antisiphon Protection Tests	10
23. Carburetor Leak Tests	10
24. Drip Collector Capacity Test — Horizontal and Updraft Carburetors	11
25. Backfire Test — Horizontal and Updraft Carburetors	11
26. Polymeric Components Tests	11
Ventilation Systems	14
27. General	14
28. Air Flow Tests — Boats with Gasoline Engines	14
Manufacturing and Production Tests	14
29. Fuel System Pressure Test	14
30. Cooking and Heating System Pressure Test	15
31. Hydraulic System Pressure Test	15
Identification and Information	15
Information Markings	15
32. General	15
33. Cautionary and Warning	16
34. Permanence of Marking Tests	16
Appendix A	A1
Standards for Components	A1
Appendix B	B1
Standards for Reference Purposes	B1

FOREWORD

A. This Standard contains basic requirements for products covered by Underwriters Laboratories Inc. (UL) under its Follow-Up Service for this category within the limitations given below and in the Scope section of this Standard. These requirements are based upon sound engineering principles, research, records of tests and field experience, and an appreciation of the problems of manufacture, installation, and use derived from consultation with and information obtained from manufacturers, users, inspection authorities, and others having specialized experience. They are subject to revision as further experience and investigation may show is necessary or desirable.

B. The observance of the requirements of this Standard by a manufacturer is one of the conditions of the continued coverage of the manufacturer's product.

C. A product which complies with the text of this Standard will not necessarily be judged to comply with the Standard if, when examined and tested, it is found to have other features which impair the level of safety contemplated by these requirements.

D. A product employing materials or having forms of construction differing from those detailed in the requirements of this Standard may be examined and tested according to the intent of the requirements and, if found to be substantially equivalent, may be judged to comply with the Standard.

E. UL, in performing its functions in accordance with its objectives, does not assume or undertake to discharge any responsibility of the manufacturer or any other party. The opinions and findings of UL represent its professional judgment given with due consideration to the necessary limitations of practical operation and state of the art at the time the Standard is processed. UL shall not be responsible to anyone for the use of or reliance upon this Standard by anyone. UL shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use, interpretation of, or reliance upon this Standard.

F. Many tests required by the Standards of UL are inherently hazardous and adequate safeguards for personnel and property shall be employed in conducting such tests.

GENERAL

1. Scope

1.1 These requirements cover recreational boats, and the installation and resultant performance of various materials, equipment, and structures thereon including hull performance as it relates to static stability and maneuvering speed.

1.2 These requirements cover boats that are subject to United States Coast Guard (USCG) regulations as specified in 33 CFR 181 — Manufacturer Requirements and 33 CFR 183 — Boats and Associated Equipment, as well as boats not specifically subject to USCG regulations. Boats that comply with these requirements are in accordance with the applicable USCG regulations.

1.3 These requirements supplement, and are used in conjunction with, the Fire Protection Standard for Pleasure and Commercial Motor Craft, NFPA 302 and the Standard for Recreational Boats Less Than 20 Feet in Length, UL 1199.

2. Components

2.1 Except as indicated in paragraph 2.2, a component of a boat covered by this standard shall comply with the requirements for that component. See Appendix A for a list of standards covering components generally used in the boats covered by this standard.

2.2 A component need not comply with a specific requirement that:

A. Involves a feature or characteristic not needed in the application of the component in the boat covered by this standard, or

B. Is superseded by a requirement in this standard.

2.3 A component shall be used in accordance with its recognized rating established for the intended conditions of use.

2.4 Specific components are recognized as being incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions for which they have been recognized.

3. Units of Measurement

3.1 If a value for measurement is followed by a value in other units in parentheses, the second value may be only approximate. The first stated value is the requirement.

INSTALLATION AND PERFORMANCE

HULL ARRANGEMENT

4. General

4.1 The arrangement of compartments shall be in accordance with the Fire Protection Standard for Pleasure and Commercial Motor Craft, ANSI/NFPA 302—1984, as verified by an inspection and compliance with the test specified in Section 6.

5. Flotation and Powering

5.1 The flotation system and materials and the powering system of a boat less than 20 feet (6.1 m) long shall comply with the applicable requirements in the requirements for recreational boats less than 20 feet in length, UL 1199, as verified by an inspection and by testing in accordance with UL 1199.

5.2 The maneuvering speed shall be determined using a motor rated at maximum horsepower for a boat:

A. 20 feet (6.1 m) or longer, intended to be operated at speeds of 40 miles per hour (64.4 km/h) or more.

B. Less than 20 feet long, intended to be operated at speeds of 35 miles per hour (56.3 km/h) or more.

Compliance shall be determined using the requirements and tests specified in Powering of Boats, ABYC H—26—83. The maneuvering speed shall be marked on the boat in accordance with paragraph 32.7.

6. Bulkhead Watertightness Test

6.1 A bulkhead that is relied upon to separate a potential source of explosive vapors from electrical components shall not leak more than 1/4 fluid ounce (7.4 mL) of water when tested as described in paragraph 6.2.