

UL 1199

ORDER OF DATA

[illegible]


UNDERWRITERS LABORATORIES INC.
an independent, not-for-profit organization testing for public safety

12 Laboratory Drive, Research Triangle Park, NC 27709
 1285 Walt Whitman Road, Melville, L.I., NY 11747
 1655 Scott Boulevard, Santa Clara, CA 95050
 333 Pfingsten Road, Northbrook, IL 60062

July 21, 1986

Revision pages for

**STANDARD FOR
 RECREATIONAL BOATS LESS THAN 20 FEET IN LENGTH**

UL 1199, FIRST EDITION

Attached is a revision of the first edition of UL 1199.

A CHANGE IN REQUIREMENTS IS INDICATED BY A VERTICAL LINE IN THE MARGIN ON PAGE DATED JULY 21, 1986. EDITORIAL CHANGES ARE NOT SO MARKED.

THIS REVISED REQUIREMENT IS NOW IN EFFECT.

The revised requirements are substantially in accordance with UL's bulletin on this subject dated December 16, 1985. The bulletin is now obsolete and may be discarded.

Attention is directed to the note on the title page of this standard outlining the procedure to be followed to retain the approved text of ANSI/UL 1199—1984.

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

With the inclusion of the accompanying material, the standard consists of pages dated as shown in the following check list:

Page	Date
1	September 15, 1982
2	—
3	July 21, 1986
4—10	September 15, 1982
10A, 11	July 21, 1986
12—20	September 15, 1982

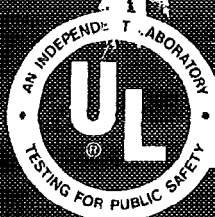
(3)

UL 1199

STANDARD *for* SAFETY

RECREATIONAL BOATS

LESS THAN 20 FEET IN LENGTH



UNDERWRITERS
LABORATORIES
INC.®

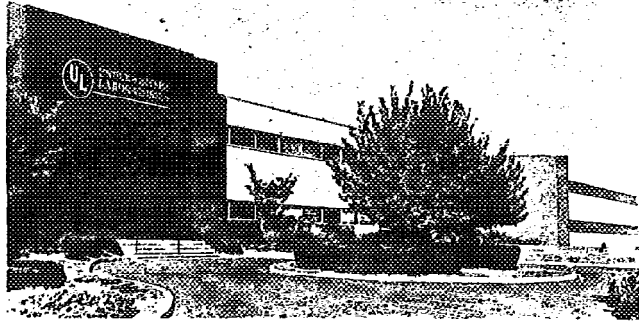


Documents

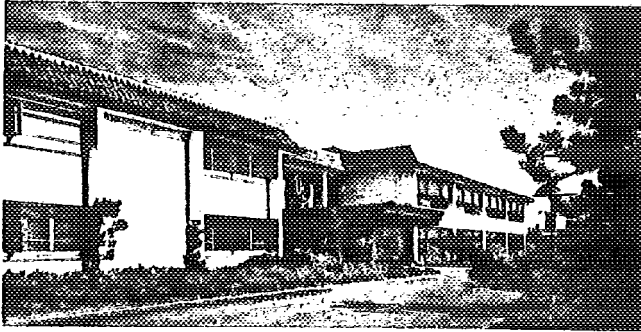
Document Sharing Hub



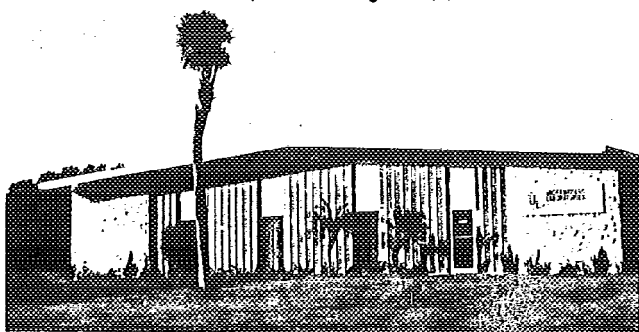
Northbrook, Illinois Testing Station



Melville, N.Y. Testing Station



Santa Clara, Calif. Testing Station



Tampa, Florida Testing Station

UNDERWRITERS LABORATORIES INC.

AN INDEPENDENT NOT-FOR-PROFIT ORGANIZATION
TESTING FOR PUBLIC SAFETY

Underwriters Laboratories Inc., founded in 1894, is chartered as a not-for-profit organization without capital stock, under the laws of the State of Delaware, to establish, maintain, and operate laboratories for the examination and testing of devices, systems and materials to determine their relation to hazards to life and property.

A complete description of the organization, purposes, and methods of Underwriters Laboratories Inc. is given in a separate pamphlet entitled "TESTING FOR PUBLIC SAFETY."

The names of manufacturers who have demonstrated an ability to produce products meeting UL requirements are published annually in the following Product Directories.

Building Materials
Fire Protection Equipment
Fire Resistance
Recognized Component
Electrical Appliance and Utilization Equipment
Electrical Construction Materials
Hazardous Location Equipment

General Information From Electrical Construction
Materials Directory
Marine Products
Automotive, Burglary Protection, and Mechanical
Equipment
Gas and Oil Equipment
Supplements to Directories

The price list for these publications and ordering information may be obtained upon request from UL, Publications Stock, 333 Pfingsten Road, Northbrook, Illinois 60062.

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



SEPTEMBER 15, 1982
(Reprinted: October 8, 1984)

1

ANSI/UL 1199—1984

UL 1199
STANDARD FOR
RECREATIONAL BOATS LESS THAN
20 FEET IN LENGTH

FIRST EDITION

First Impression September 15, 1982

Approval as an American National Standard covers the numbered paragraphs on pages dated September 15, 1982. These pages should not be discarded when revised or additional pages are issued if it is desired to retain the approved text. Revisions of this standard will be made by issuing revised or additional pages bearing their dates of issue.

Approved as ANSI/UL 1199—1984, July 19, 1984

COPYRIGHT © 1982, 1984 UNDERWRITERS LABORATORIES INC.

UL's Standards for Safety are copyrighted to protect UL's publication rights, not to restrict their use in product design or evaluation. See paragraph E of the Foreword.

TABLE OF CONTENTS

Foreword	4
General	5
1. Scope	5
2. Glossary	5
3. Units of Measurement	8
Construction	8
4. General	8
Rating	8
5. Maximum Power Capacity Rating of Outboard Boats	8
6. Maximum Weight Capacity Rating	9
7. Maximum Persons Capacity Rating	10
Performance	10
8. General	10
9. Weight and Maximum Displacement Tests	10A
10. Maximum Persons Capacity Test	10A
11. Basic Flotation Tests	12
12. Flooded Level Flotation and Persons Capacity Test	12
13. Flooded Stability Test	13
14. Flotation Materials Test	14
15. Permanence of Marking Tests	18
Marking	18
16. General	18
17. United States Coast Guard Information Label	18

**Replaces page 3 dated September 15, 1982*

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 maximum weight and persons capacity, maximum power capacity, flotation, level flotation, and flotation materials of monohull-inboard, inboard-outdrive, and outboard boats, and boats intended for manual propulsion. These requirements cover boats that have a length of less than 20 feet.

1.2 These requirements do not cover sailboats, canoes, or kayaks; nor do they cover pontoon or inflatable boats (1) with inboard engines or inboard-outdrives or (2) that are intended for use with one or more outboard engines.

2. Glossary

2.1 For the purposes of these requirements, the following definitions apply.

2.2 APPURTENANCES, PERMANENT — Equipment that is mounted or fastened so that it is not removable without the use of tools. Seats, inboard engines, windshields, helm stations, and hardtops are examples of permanent appurtenances, whereas outboard engines, controls, batteries, and portable fuel tanks are not permanent appurtenances.

2.3 AREA, PASSENGER CARRYING — Each area in a boat in which a person can sit or stand in a normal position while the boat is in operation. See Figure 2.1. For the purposes of this definition:

A. The length of the passenger carrying area is the distance along the centerline of a boat from a vertical line at the forward end of the passenger carrying area to a vertical line at the aft end of the passenger carrying area, measured when the boat is level, as shown in Figure 2.1. For a boat with a curved stem inside the passenger carrying area, the forward vertical line intersects the stem at the point where a line 45 degrees to the horizontal is tangent to the curve of the stem. For a boat with a cabin, the forward vertical line is at the forwardmost point where a minimum distance of 2 feet (0.6 m) is maintained between the inside top of the cabin and the waterline formed when the boat is swamped and loaded with weights in accordance with Section 12.

B. The breadth of the passenger carrying area is the distance between two vertical lines at the midlength, excluding consoles, of the passenger carrying area when the boat is level, as shown in Figure 2.1. For boats with round chines inside the passenger carrying area, the vertical line intersects the chine at the point of tangency of a line 45 degrees to the horizontal and the arc of the chine.

2.4 AREA, REFERENCE, AFT — The aftmost 2 feet (0.6 m) of the top surface of the hull or deck of a boat. See Figure 2.2.

2.5 AREA, REFERENCE, FORWARD — The forwardmost 2 feet (0.6 m) of the top surface of the hull or deck of a boat. See Figure 2.2.

2.6 BEAM — The transverse distance between the outer sides of a boat, excluding handles and similar attachments, extensions, and fittings.

2.7 BILGE — The area in a boat, except an engine room, that is less than 4 inches (102 mm) above the lowest point in the boat in which liquid can collect when the boat is in its static-floating position.

2.8 BILGE, ENGINE ROOM — The area in an engine room or connected compartment (see paragraph 2.13) that is less than 12 inches (305 mm) above the lowest point in the boat in which liquid can collect when the boat is in its static-floating position.

2.9 BOAT — Any vessel that is (1) manufactured or used primarily for noncommercial use, (2) leased, rented, or chartered to another for the latter's noncommercial use, or (3) engaged in the carrying of six or fewer passengers.

2.10 BOAT, MONOHULL — A boat on which the line of intersection of the water surface and the boat at any operating draft forms a single closed curve. A catamaran, trimaran, or pontoon boat is not a monohull boat.

2.11 COMPARTMENT, OPEN TO ATMOSPHERE — A compartment that has at least 15 square inches (97 cm²) of open area directly exposed to the atmosphere for each cubic foot (0.028 m³) of net compartment volume.