

**§ 183.27**

the yellow area on a background color which contrasts with yellow.

(6) The words “Maximum Capacities” must be at least one-quarter inch in height and of color contrasting with its background.

(7) The words “U.S. Coast Guard” must be at least one-eighth inch in height and of color contrasting with its background.

[CGD 78-034, 45 FR 2029, Jan. 10, 1980]

**§ 183.27 Construction of markings.**

Each marking required by §183.23 must be—

(a) Capable of withstanding the combined effects of exposure to water, oil, salt spray, direct sunlight, heat, cold, and wear expected in normal operation of the boat, without loss of legibility; and

(b) Resistant to efforts to remove or alter the information without leaving some obvious sign of such efforts.

[CGD 78-034, 45 FR 2030, Jan. 10, 1980]

**Subpart C—Safe Loading**

**§ 183.31 Applicability.**

This subpart applies to monohull boats less than 20 feet in length except sailboats, canoes, kayaks, and inflatable boats.

**§ 183.33 Maximum weight capacity: Inboard and inboard-outdrive boats.**

(a) The maximum weight capacity (W) marked on a boat that has one or more inboard or inboard-outdrive units for propulsion must not exceed the greater value of W obtained from either of the following formulas:

$$W = \frac{(\text{maximum displacement})}{5} - \frac{\text{boat weight}}{5} - \frac{4(\text{machinery weight})}{5}$$

or

$$W = \frac{(\text{maximum displacement} - \text{boat weight})}{7}$$

(b) For the purposes of paragraph (a) of this section:

(1) “Maximum displacement” is the weight of the volume of water displaced by the boat at its maximum level immersion in calm water without water coming aboard. For the purpose of this paragraph, a boat is level when it is transversely level and when either of the two following conditions are met:

(i) The forward point where the sheer intersects the vertical centerline plane and the aft point where the sheer intersects the upper boundary of the transom (stern) are equidistant above the water surface or are equidistant below the water surface.

(ii) The most forward point of the boat is level with or above the lowest point of water ingress.

(2) “Boat weight” is the combination of:

- (i) Hull weight;
- (ii) Deck and superstructure weight;

(iii) Weight of permanent appurtenances; and

(iv) Weight of full permanent fuel tanks.

(3) “Machinery weight” is the combined weight of installed engines or motors, control equipment, drive units, and batteries.

[CGD 72-61R, 37 FR 15782, Aug. 4, 1972]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §183.33, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

**§ 183.35 Maximum weight capacity: Outboard boats.**

(a) The maximum weight capacity marked on a boat that is designed or intended to use one or more outboard motors for propulsion must be a number that does not exceed one-fifth of the difference between its maximum displacement and boat weight.