

53. All items to be weighed before using a measurement container and their positions at the start of each weighing.

54. The measurer shall certify the weighing of the boat on page 4 of the owner's measurement certificate signed by a least two witnesses and the owner, as well as the owner of the scales, that the minimum weight of the boat complete complies with this paragraph. The minimum weight shall be at least 130 kg. The boat hull including deck, centerboard, trunk, floorboards, flotation, hull fittings, and all heavy equipment shall weigh at least 100 kg minimum. In addition to the 100 kg minimum, the boat shall be permanently loaded with ballast to meet the requirements for Moment of Inertia. A ballast of 20 kg per cubic meter may be used in all boats with a maximum hull length of 3.05 m or less. The ballast including ballast on deck above shall be included in the moment of inertia test as set forth in the Supplement to the Measurement Data Sheet for Moment of Inertia Test.

55. Weight certificates from builders will not be accepted.

56. All boats shall comply with the following flotation requirements: When the boat has been prepared and has been lifted in any position long enough to take in as much water as possible in high wave conditions, it shall upon being righted float so that the water level is at the deepest edge of the hull. The water level in the boat shall be at least 100 mm above the water when the boat is supporting 300 lbs (136 kg). This may be accomplished by means of tanks, flotation bags, self-inflating cushions, inflated low density flotation material, or other suitable means. Holes with maximum total area 100 square inches (645.2 sq. cm) may be made in the transom to facilitate drainage. Where transom fittings are used to comply with this rule they should have a minimum of 45 square inches (290.3 sq. cm) total. In boats meeting the requirements of this rule, the forward and transom may have a minimum height of 9" (22.9 cm) above the outside of the keel if the boat, after tapping and being righted, floats high enough so that water will flow out of the trunk; otherwise, the trunk shall be 2" (5.1 cm) above the water level in the boat after tapping and being righted.

MISCELLANEOUS

57. Measurer must notify the owner of the following essential requirements: Boat must carry wearable life preservers for all occupants at all times, and life center floats may require wearing them when raising them, they require maintenance. Suitable padding must be provided. A towing line of 1/2" (12.7 mm) minimum length, and 1/4" (6.35 mm) minimum diameter must be carried. ICFPA makes no presumption on and out some local authorities may require them. This applies to all boats.

58. There shall be no advertising matter whatsoever on the outside of any boat or on its sails, except as allowed by the ICFPA Event Sponsorship Policy. Any boat infringing this ruling shall be subject to loss of measurement certificate. Measurers shall not issue a certificate to any such boat.

59. Name, complete mailing address and telephone or Fax number of Builder.

PERSON:

60. Stays, stays leading ends, bungees, and other additional members of supporting the skipper's or crew's weight to balance the boat are prohibited. This does not prevent the use of bungee straps or any kind of line or cord attached to the boat within 3" (76.2 mm) of the top of the deck. The purpose is for the crew to hold on to the stays.

CONSTRUCTION OF FIBERGLASS HULLS

61. Only professional boat builders can make fiberglass hulls. Effective January 1, 1975, the construction of fiberglass hulls has been allowed under the same conditions as approved by ICFPA for a metal or wood hull. The test does not allow any chafe molding. Part or all of a sheer molding may be molded with the hull.

62. FIBERGLASS: Fiberglass cloth, woven roving or mat may be used with epoxy or polyester or epoxy resins. Glass content must be at least 30% by weight.

63. FLOTATION: at least 134 cubic feet (3.8 cubic meters) of Styrofoam, Urethane foam or other foam having a density of 2.0 kg per cubic foot (40 kg per cubic meter) must be included in the hull. Balls of foam and sea-in resin-impregnated fiberglass with B considered acceptable. Supported's flotation requirements are not considered acceptable.

64. REINFORCING: All fiberglass boats must be reinforced at start and stern. The thickness of the hull must be uniform except where reinforced locally such as at the keel, the chine, the stem, the mast step, and where the stay, bungees and rudder gudgeons are attached. Nonreinforced areas must incorporate a flotation area, or an alternate flotation material, not a violation of the requirements. If desired, the fiberglass may be bonded directly to the bottom of the boat on such

supports. A fiberglass and foam sandwich floor structure may be used. Wood and plywood are acceptable local reinforcements.

65. DECKS: The deck may be plywood as specified in the measurement data sheet, or it may be fiberglass. In general, a fiberglass deck will require some type of double surface and frame construction to secure adequate gaffers. Each builder's method of construction must be approved by the Rules Committee.

CONSTRUCTION OF PLYWOOD HULLS

66. BOTTOM AND SIDES: The weight of the plywood used must be at least one pound two and one-half ounces per square foot (3.65 kg per square meter). If 1/2 inch (12.7 mm) material is used throughout, fiberglass or other covering material may be used to bring the hull up to a minimum weight.

67. FLOTATION: Three cubic feet (85 cubic dm) of Styrofoam must be installed in the hull.

MOMENT OF INERTIA TEST

68. All boat hulls as defined in paragraph 54 must be subjected to the moment of inertia test. (For a full description of the method, see SUPPLEMENT TO THE MEASUREMENT DATA SHEET FOR MOMENT OF INERTIA TEST.)

The moment of inertia of the hull is calculated from the following formula:

Moment of Inertia = (W x D^2) / 12

- W = Moment of inertia weight
D = Square distance between Kg per M^2
D = Distance between Ft. M^2
The Time of the boat's rotation seconds

For our purposes W = 1000 lbs (453.59 kg) = 1000 lbs. x 1.356 = 1356 M^2. The rotating container will be fixed with strings to the ICFPA. We will use a complete measurement.

English = (1356 x 1000^2) / 12 = 113000000 (113000000)
Metric = (1356 x 1000^2) / 12 = 113000000

The moment of inertia of the hull is determined from the formula above shall be:

- English - 200 (slug foot squared)
Metric - 27.6 (metric slug meters squared)

If the hull moment of inertia does not meet this minimum, weight shall be moved to or added to the ends to bring it up to the minimum. The Moment of Inertia for this boat is 27.6

Amount of weight and general description of location of weight added to conform to ICFPA requirements. Location must be marked on diagram on page 4)

3,4 kg 30 cm aft of TRUNK

EXCEPTION TO APPLICABILITY OF PRIOR RULES

The new construction rules and formulas may be used after January 1, 1975 on all boats in the World Championships, Western Hemisphere Championships and European Championships. Those existing boats which cannot use a 3/8" minimum thick board because of trunk slot width shall use a 5/8" minimum thick board of the new shape. The length of the trunk slot shall be 27.6 cm (10.87 in.) maximum.

Swipe Line International Race Association, Inc.
CLASS MEASUREMENT CERTIFICATE

I, undersigned, duly authorized by SWIPA to issue this certificate, has measured and had measured **20010** and its rigging and required equipment, and found that in my opinion said boat conformed with all requirements of the Measurement Data Sheet in effect at this date. Requirements of said Data Sheet will be reviewed and this Certificate void in the event of modification or alteration of any and all dimensions, rigging or equipment.

Date 1996-07-25 Signature [Signature]

Authorized Measurement

This Certificate is given subject to the terms and conditions set forth in the Bylaws and Rules of SWIPA as now in effect at Newhall, Canada. The validity of this Certificate shall constitute no warranty by SWIPA or the Authorized Measurement of this boat's compliance with the specific rules set forth in the Measurement Data Sheet. This Certificate is valid only for the boat number and date of the Swipe Class racing event. Any competitor in such a racing event may be disqualified if it is found that this boat does not conform to the

SWIPA 1996

Valid only when racing the following class:

MARK HALL AND PART

THE PLAT COMPLETE MUST BE WEIGHED. THIS WEIGHT DOES NOT INCLUDE ANCHORS, PASSELS, GUISERPOLE, LIFE PRESERVERS, BARREL EQUIPMENT (UNLESS OTHERWISE SPECIFIED), SAILS, OR ANY OTHER LOOSE GEAR. IT DOES INCLUDE MAST, BOOM, RIGGING, MAINSHEET, CENTERBOARD, ROLLER, AND TILLER. BOATS THAT DO NOT MEET THE WEIGHT LIMIT MUST HAVE WEIGHT PERMANENTLY ADDED BEFORE THEY CAN BE GIVEN MEASUREMENT CERTIFICATE.

The weight limit is 175 lbs.

Amount of weight 5.4 lbs.

DATE

ADDRESS

GIVE THIS MEASUREMENT CERTIFICATE TO THE OWNER OF THE SNIPER NUMBER. IN OTHER CASES IT CAN BE REPLACED BY RE-MEASUREMENT.

Notes on Field Measurement

