

APPENDIX II - DEVELOPMENT AND MEASUREMENT RULES OF THE INTERNATIONAL TEN SQUARE METRE SAILING CANOE

Measurement Form

Canoe Sail No. _____

Rules in black,

Measurements and notes in red,

Drw ref (drw at end of document) in green

1 GENERAL

Class and measurement rules measurement forms may be obtained from the I.C.F.

2 MEASUREMENT

All Canoes entered in competition shall be measured to assure conformity with these rules. Unless specifically required otherwise hereunder, all measurements shall be taken parallel to one of the three major axis of the hull - vertical, horizontal or transverse - related to the waterline and fore and aft centre-line of the hull.

Record Measurements
in mm or Kgs.

3 SPIRIT OF THE RULES

The International Canoe has a long and vital history; these rules frame parameters for continuing development of the sailing canoe. The individual values and dimensions within these rules are based on historical precedent and current best practices. These rules endeavour to offer designers and builders significant opportunity for innovation while maintaining continuity with the past. New innovations shall conform to these rules and owners are encouraged to seek any necessary interpretations of rules from their National Federation or the ICF Sailing Committee before building. Measurers shall refer to their National Federation innovations that may breach the 'Spirit of the Rules' in any way and withhold the signing and issue of a measuring certificate until clarification has been obtained.

COMPLIES
YES / NO

4 PRINCIPAL DIMENSIONS

Length 4900-5200mm Beam 750-1100mm Sail Area 10m²

5 HULL

a) The overall length shall be not be greater than 5200mm or less than 4900mm. This measurement shall include any protective strip and shall exclude rudder and rudder fittings. However if the athwartships width of the rudder or hardware exceeds 50mm within 150mm of the bottom of the hull at the stern, the length shall be measured to the aftermost point of the rudder.

OVERALL LENGTH
Drw ref 5a _____

b) The projection on to a horizontal plane of the line of greatest beam shall be a continuous curve, and at bow and stern shall lie inside lines which are at 45° to the centre-line and which pass through the centre-line not more than 25mm beyond the extremities.

BOW MEASUREMENT
Drg ref 5b _____

STERN MEASUREMENT
Drg ref 5b _____

The line of greatest beam may be a combination of convex, concave and straight lines. No concave curve shall have a radius of less than 100mm. No convex curve shall have a radius of less than 60 mm except within 50mm of the stem and stern. There shall be not more than one concavity per side in the line of greatest beam.

COMPLIES
YES / NO
Drg ref, Plan View

c) A 1000mm straight edge set to span such a concavity fore and aft, with 0mm at the outboard tangent, shall nowhere be more than 100mm from the hull skin (measured perpendicular to the straight edge).

MEASUREMENT
max concavity
Drg ref 5c _____

d) The canoe must have a minimum beam of 750mm. Beam shall be measured at a Beam Measurement Station (BMS) located between 1300mm and 2600mm forward of the stern. At BMS, nowhere between the heights of 100mm and 275 mm above the keel shall the outside of the hull skin be less than 750mm in beam.

MEASUREMENT
position of BMS
Drg ref 5d _____

COMPLIES
YES / NO

e) A 2000 mm tape centred on BMS and pulled tight fore and aft against the outside skin of the hull, shall bridge no hollow in excess of 1mm in depth. A 1000 mm tape centred on the keel at BMS and pulled tight transversely against the outside skin of the hull, shall bridge no hollow in excess of 1mm in depth.

COMPLIES, no hollows
YES / NO
Drg ref 5e

f) Nowhere shall the outside skin of the hull exceed 1100mm in beam.

MEASUREMENT
_____mm

g) The hull surface shall be a continuous structure fore and aft and athwartships. It shall not be breached by any through structure or holes except by no more than one centreboard trunk and one rudder trunk.

COMPLIES
YES / NO
Drg ref 5f

h) The hull and all equipment required for racing, except for sails, battens, clothing, food and drink, shall be weighed together and dry and shall have a total mass of not less than 50kg. The mass of correctors shall not exceed 10kg. Correctors shall be fastened permanently either to the seat carriage or the outside of the deck adjacent to the seat carriage and shall be clearly visible. The number, weight and placement of correctors shall be noted on the measurement certificate. Correctors shall be marked by the measurer.

HULL WEIGHT
without correctors
_____kg
CORRECTOR WEIGHT
_____kg
CORRECTOR
LOCATION

i)The hull shall not be ballasted.

COMPLIES
YES / NO

j) There are no restrictions on the material or method of construction of the hull.

6 DECK

a) Outriggers that extend beyond the sheer line for the purpose of providing a rigging point, or modifying the lead of a sheet, or for providing additional structure to support the sailor other than the sliding seat or the booms defined in rules 8 and 11 are prohibited.

COMPLIES
YES / NO

b) There are no restrictions on the design or material of the deck other than the rules above.

7 BUOYANCY

Reliable buoyancy to give at least 75 kg of positive buoyancy with hull flooded shall be provided. The volume of the hull and deck skins as well as any internal framing may contribute to this requirement, but the flooded canoe hull must support its own weight plus 75 kg of additional weight. If the buoyancy is in the form of tanks or flexible bags there shall be at least two. A sectioned hull is not acceptable. If the buoyancy is not removable the builder must certify that such buoyancy satisfies this rule.

REMOVABLE
BUOYANCY INSPECTED
_____kg
COMPLIES, TWO
TANKS/ BAGS
YES / NO

FIXED BUOYANCY
CERTIFICATION:

Builders Name

Builders Signature

8 SLIDING SEAT

a) The sliding seat shall not extend further than 2040mm from the centre-line of the hull. This measurement is taken horizontally.

COMPLIES
YES / NO
Drg ref 8a

b) The width of the sliding seat shall not exceed 500mm.

WIDTH

c) The length of the sliding seat shall not exceed 2600mm.

LENGTH

d) The mass of the sliding seat shall not be greater than 12kg, including all moving parts excluding the seat carriage.

WEIGHT

e) The sliding seat carriage shall not extend beyond the sheer-lines.

kg

f) A visual contrasting band or marker must clearly indicate the extent of the maximum allowable travel whilst sailing. The visual contrasting band or marker and its location shall be subject to the approval of the National Measurer.

CONTRASTING BANDS
FITTED
YES / NO

g) There are no restrictions on the design or material of the sliding seat other than the rules above.

9 CENTRE-BOARD

a) Only one centre-board shall be carried. The centre-board shall not project more than 1000mm from the underside of the hull when fully lowered.

ONE CENTRE-BOARD
YES / NO
CENTRE-BOARD
EXTENSION
Drg ref 9a _____

b) The centre-board shall be attached so that it cannot normally fall out of its housing and when free of the hull shall float horizontally on the water.

CENTRE-BOARD
ATTACHED
YES / NO

c) The centre-board shall be capable of being raised while sailing so as not to project below the underside of the hull.

COMPLIES
YES / NO

d) Devices that create dynamic vertical lift on the centre-board are prohibited.

COMPLIES
YES / NO

e) There are no restrictions on the design or material of the centre-board other than the rules above.

10 RUDDER

a) Only one rudder shall be carried. The rudder shall not project more than 1000mm from the underside of the hull when fully lowered.

ONE RUDDER
YES / NO
RUDDER PROJECTION
Drg ref 10a _____

b) The rudder shall be attached so that it cannot normally fall out of its housing and when free of the hull and shall float.

RUDDER ATTACHED
YES / NO

c) The rudder shall be capable of being raised or removed without the use of tools with the canoe floating upright so as not to project below the underside of the hull.

COMPLIES
YES / NO

d) The rudder may have a hydrofoil configured such that it can develop a vertical dynamic lift component while sailing. It shall comprise one lifting element that may be divided by the rudder. It shall be rigidly fixed to the rudder and shall not have any moving parts, flaps or other such devices. A rudder with a hydrofoil shall be used with the hydrofoil immersed below the surface of the water.

COMPLIES
YES / NO

e) There are no restrictions on the design or material of the rudder other than the rules above.

11 MAST, BOOM, RIGGING

a) Any measurement over 75mm in the fore and aft section of a rotating mast shall be measured as sail area. This measurement of area shall be taken between the upper measurement band and the actual or projected line of the foredeck.

ADDITIONAL AREA
_____m²

b) The boom excluding fittings shall be capable of passing through a circular hole of 100mm diameter. A boom used for the foresail excluding fittings shall be capable of passing through a circular hole of 30mm diameter. For wishbone booms used for mainsail and/or foresail each side of a wishbone shall be measured separately and shall comply with the same limits.

MAIN BOOM COMPLIES
YES / NO

JIB BOOM COMPLIES
YES / NO

c) The greatest projected area of spars other than the mast, boom, jib stick and the boom of a boomed foresail shall be included in the sail area.

ADDITIONAL AREA
_____m²

d) A jib stick may be used to boom out the foresail. When in use it shall be fixed to the mast and attached to the clew.

COMPLIES
YES / NO

e) No sail shall have its luff set more than 6360 mm above the underside of the hull

COMPLIES
YES / NO

f) If the mast is taller than 6360mm, it shall carry a permanent band of contrasting colour approximately 10mm wide such that the lower edge is 6360mm above the underside of the hull. No sail shall have its luff set set above the underside of this band.

CONTRASTING BAND
FITTED
YES / NO
Drg ref 11e

g) The tip to tip distance of any spreaders or spreader system shall not exceed the hull beam at the chainplates.

COMPLIES
YES / NO

h) The mainsail shall be capable of being lowered and removed from the mast and hull with the canoe floating freely in an upright position without the use of tools. Devices that lock the sail to the mast head shall be operated from deck level.

COMPLIES
YES / NO

COMPLIES
YES / NO

i) There are no restrictions on the design, material, or position of the mast and spars other than the rules above.

12 SAILS

RECORD ON SAIL MEASUREMENT FORM

13 CREW AND EQUIPMENT

a) The crew shall be one person only.

b) An anchor need not be carried.

c) Personal buoyancy must be worn or carried ready for immediate use.

d) No electronic equipment which receives a transmission from a source external to the canoe or which processes two or more data is permitted.

COMPLIES
YES / NO

e) Outriggers that extend beyond the sheer line for the purpose of providing a rigging point, or modifying the lead of a sheet, or for providing additional structure to support the sailor other than the sliding seat or the booms defined above are prohibited.

CONFORMS
YES / NO

14 ADMINISTRATION

a) Measurement authority Each National Federation in the I.C.F. has the authority to measure canoes. Each National Federation may appoint National Measurers, and shall keep records of canoes measured under its authority. It is the responsibility of National Federations that canoes registered with them conform to the class rules when entered for international regattas. In cases of difficult or disputed measurement, the measurer shall use a method that he considers appropriate, and shall send details of this method and measurements to the National Federation. The measurer shall report to the National Federation anything which he considers departs from the spirit of these rules. The ICF Sailing Committee has authority to make regulations for the further interpretation of these rules.

List here any parts of the canoe or development (s) that the measurer considers need referring to the National Authority or the ICF Sailing Committee.

N.B. this is most important that measurers uphold the 'SPIRIT OF THE RULES'

b) Measurement After measurement, the measurer will send detailed measurements to his National Federation where they are kept for record. The National Federation issues a Certificate of Measurement to the owner. The certificate must specify the position and amount of corrector weight(s) and the type of buoyancy provided. The National Federation may refuse to issue a Certificate, even if the specific requirements of the rules are met, if a canoe departs from the spirit of these rules. If a registered canoe is extensively repaired, modified, or re-constructed it must be remeasured. Changes of ownership should be notified to the National Federation.

c) Expenses Measurement fees shall be at the discretion of each National Authority. Costs of measurement at International Regattas will be paid by the organizing National Federation.

d) Basis of measurement All measurements will be taken in metric units. It is the responsibility of measurers that measurements are taken as accurately as possible.

15 INTERPRETATION

In the case of dispute the English text shall prevail.

MEASUREMENT COMPLETION

I declare that I have measured canoe number.....and it conforms to the Spirit and letter of the rules

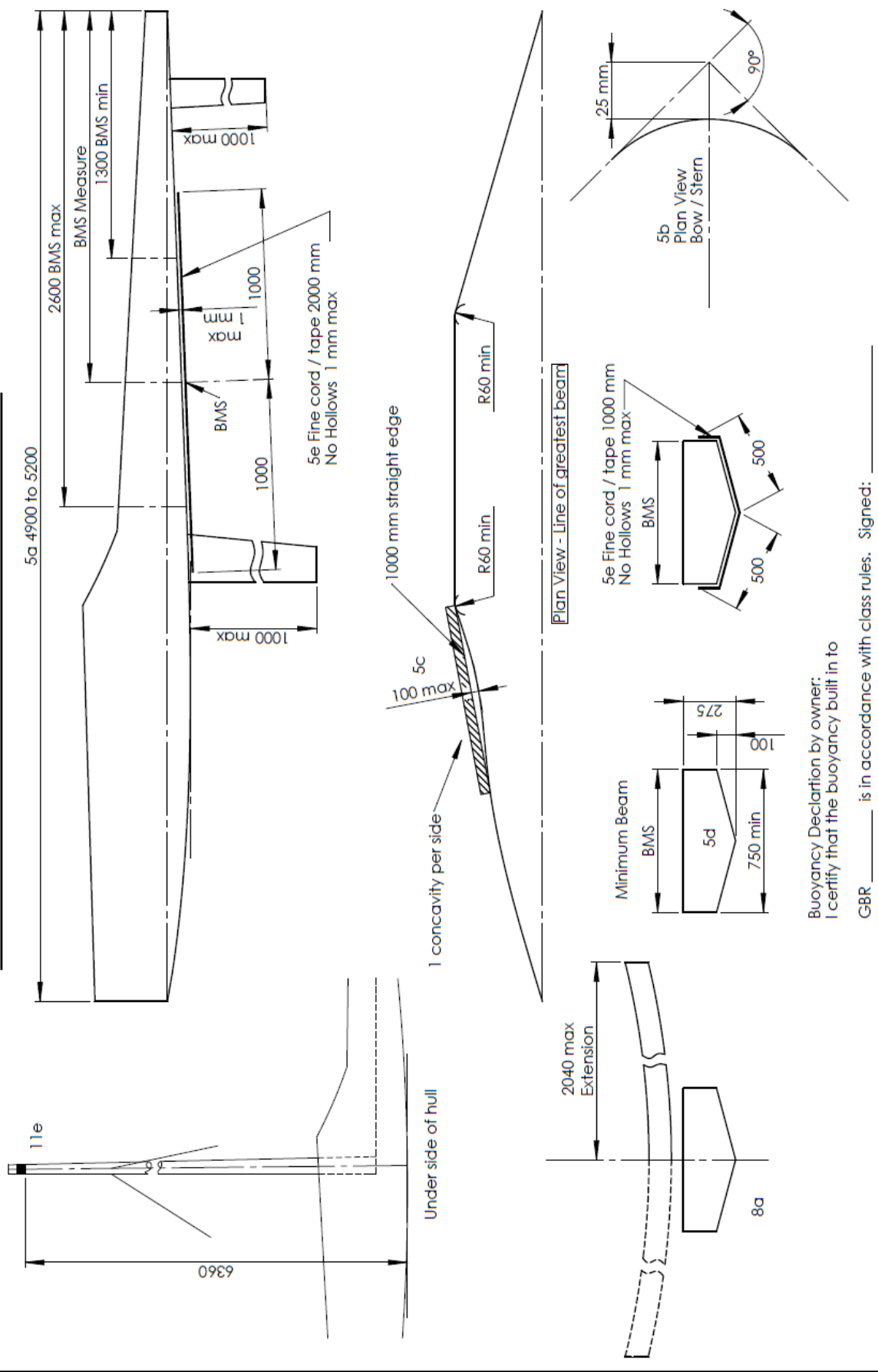
Measurers Name
Signature

Owners Name
Signature

Date

International Canoe Class - Measurement Form 2.

All Dimensions in mm



Buoyancy Declaration by owner:
I certify that the buoyancy built in to

GBR _____ is in accordance with class rules. Signed: _____