

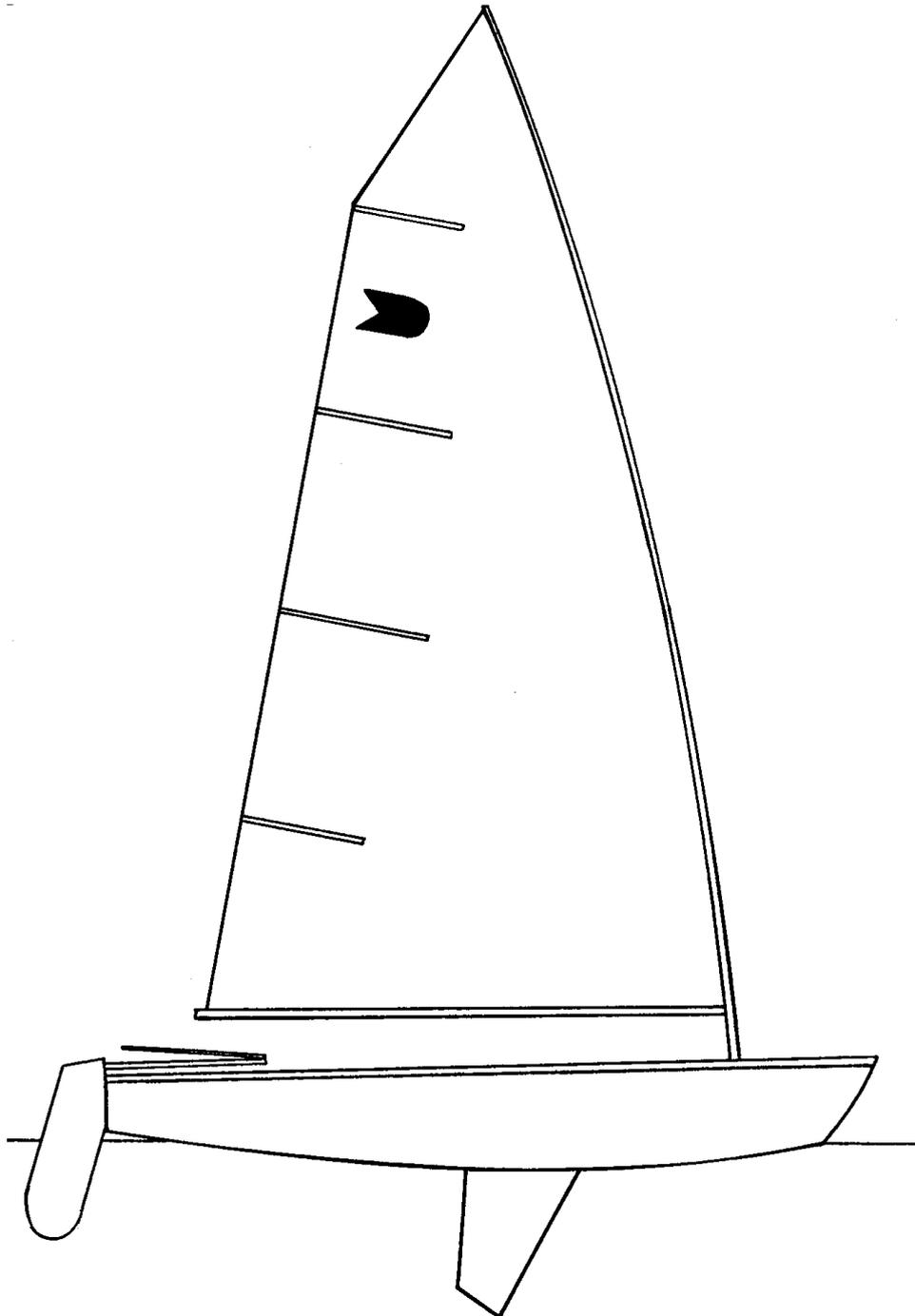
1998

# INTERNATIONAL OK DINGHY CLASS RULES



I S A F

Authority\*: International Sailing Federation



\* The International Sailing Federation (ISAF) is not a National Authority (NA).

## **1. GENERAL**

- 1.1 The OK Dinghy is a one-design class. The intention of these rules is to ensure that the boats are as alike as possible in all respects affecting performance. However, within these rules, variations in the construction of the boat are permitted.
- 1.2 The official language of the class is English, and in the event of dispute over interpretation the English text shall prevail.
- 1.3 These rules are complementary to the plans, measurement form and measurement diagram. Any interpretation shall be made by the ISAF which shall consult the OK Dinghy International Association (OKDIA).
- 1.4 In the event of discrepancy between these rules, the measurement form, the measurement diagram and/or the plans the matter shall be referred to the ISAF.
- 1.5 All boats shall be built in accordance with the class rules and measurement form as issued by the ISAF.
- 1.6 In countries where there is no National Authority (NA) or the NA does not wish to administer the class, its functions as stated in these class rules shall be carried out by OKDIA or its delegated representatives (National Associations). Where the NA has delegated the administration of the class to the National Association the words "National OK Dinghy Association" replace the words "National Authority" in the following rules.
- 1.7 Neither the ISAF nor OKDIA accept any legal responsibility in respect of these rules and/or the plans or any claim arising therefrom.

## **2. BUILDERS**

The OK Dinghy may be built by any professional or amateur builder; no building licence is required.

## **3. BUILDING FEE**

- 3.1 The International Class Fee shall be subject to review by ISAF and OKDIA
- 3.2 The amount of the International Class Fee may be reviewed by the ISAF in consultation with OKDIA.
- 3.3 OKDIA is responsible for the collection and distribution of International Class Fees.
- 3.4 The International Class Fee is payable by the builder on each boat built, whether or not it is subsequently measured and registered. Payment shall be made directly to the National OK Dinghy Association which shall issue an International Class Fee receipt and an ISAF plaque, both bearing the same number. The International Class Fee receipt and plaque shall be delivered by the builder to the owner on sale of the boat. The plaque should be fitted on the starboard side of the aft cockpit bulkhead.
- 3.5 International Class Fee receipts shall be valid only if made out on official receipts issued by OKDIA. The ISAF will sell these receipts for the agreed fee to the OKDIA which shall sell them for a fee approved by the ISAF to each of its National Associations. The purchase price in each case represents the proportion of the International Class Fee due to the ISAF and the OKDIA and the National Association.

## **4. REGISTRATION AND MEASUREMENT CERTIFICATE**

- 4.1 No boat is permitted to race in the class unless it has a valid measurement certificate.
- 4.2 The certificate is only valid for racing if the owner is a current member of a National OK Dinghy Association.
- 4.3 The certificate is obtained as follows:
- (i) The builder shall apply to the National Authority for a sail number enclosing the International Class Fee or International Class Fee receipt. The National Authority shall issue a sail number only on receipt of evidence that the International Class Fee has been paid.
  - (ii) The boat shall be measured by a measurer officially recognised by the NA. The completed measurement forms shall be supplied to the owner of the boat.
  - (iii) The owner shall send the completed measurement forms to his NA together with any registration fee that may be required. On receipt of this the NA may issue a certificate to the owner.
- 4.4 Change of ownership invalidates the certificate but shall not necessitate remeasurement. The owner may apply to his NA for a new certificate returning the old certificate together with any re-registration fee that may be required and stating the necessary particulars. A certificate shall then be issued to the new owner.
- 4.5 It is the owner's responsibility to ensure that his boat, spars, sails and equipment comply with the class rules at all times and that alterations or repairs to the boat, spars, sails or equipment do not invalidate the certificate.
- 4.6 Notwithstanding anything in these rules the ISAF or NA shall have the power to refuse to grant a certificate to, or withdraw a certificate from, any boat.
- 4.7 OKDIA shall be sent at regular intervals from each NA details of certificates issued, together with the names and addresses of the owners.

## **5. MEASUREMENT**

- 5.1 Only a measurer officially recognised by a NA shall measure a boat, its spars, sails and equipment and sign the declaration on the measurement form that they comply with the class rules.
- 5.2 The measurer shall report on the measurement form anything which he considers to be a departure from the intended nature and design of the boat, or to be against the general interest of the class, and a certificate may be refused, even if the specific requirements of the rules are satisfied.
- 5.3 A measurer shall not measure a boat, spars, sails or equipment owned or built by himself, or in which he is an interested party or has a vested interest.
- 5.4 New or substantially altered sails shall be measured by an official measurer who shall stamp or sign and date the sails near the tack.
- 5.5 All boats in hull form and construction, spars and sails shall comply with the current rules or with the corresponding rules applying to them at the time the original certificate was issued. Any alterations or replacements shall comply with the current rules.
- 5.6 All boats and their equipment shall be liable to remeasurement at the discretion of the NA or race committee.
- 5.7 All boats will be liable to gyration tests at the discretion of the National Authority or race committee. If necessary, additional blocks shall be attached to the boat if there is no sheerguard, or if the sheerguard is inadequate, to engage swing hooks.

## **6. IDENTIFICATION MARKS**

- 6.1 The hull of all boats built after 1st September 1973 shall carry the sail number and national letter either cut out or burned into the hog or centreboard case in the cockpit, or on the bulkhead at station 2 on centreline, in figures not less than 20mm in height.
- 6.2 The sail shall carry identification marks as indicated in rule 15.2.
- 6.3 All emblems, marks and numbers shall be of a durable material and securely attached.

## **7. HULL MEASUREMENT**

- 7.1 As many measurements as considered practical to check the shape have been listed on the measurement form, but the intention is that in all particulars the boats shall conform to the designed shape.
- 7.2 Length measurements of the hull shall be taken parallel to the base line and depth measurements perpendicular to the base line. Measurement sections including the aft edge of the transom shall be perpendicular to the base line.

## **8. CONSTRUCTION**

- 8.1 The hull, decks and centreboard case shall be made of wood or glass fibre reinforced resin (GRP) or a combination of these materials. GRP sandwich construction, not exceeding 25mm thickness including stringers, is also permitted. Wood used shall be of durable nature.
- 8.2 Any holes in buoyancy tanks shall be made watertight and each buoyancy tank shall have at least one and not more than three inspection holes of diameter not less than 85mm. Each hole shall have a detachable cover capable of resisting accidental dislodgement and such covers shall be positively secured at all times when racing. Covers to holes in the bulkheads shall not extend into the buoyancy compartments by more than 200mm. Control lines passing through buoyancy compartments shall be inside watertight tubes capable of withstanding the normal wear and tear and remaining watertight. The sum total cross sectional area of these tubes shall not exceed 150 cm<sup>2</sup> and they shall be within 350mm of the centreline of the boat. Control lines passing through the bulkheads or decks shall be within 350mm of the centreline of the boat.
- 8.3 Construction of the hull, with the exception of stringers, shall be of approximately even thickness (within 10%) and density longitudinally and no attempt shall be made to concentrate weight near mid-length, or at any other point. If it is suspected that this rule is being broken a NA may order test holes to be drilled in the skin or structure.
- 8.4 The following shall conform with:
- (i) There shall be three watertight bulkheads. The forward face of the aft bulkhead shall be 800mm ± 15mm and the aft face of the forward cockpit bulkhead shall be 1794mm ± 15mm from the lowest point of the aft face of the transom. A bulkhead at, or forward of, station 3 (2800mm from the aft face of the transom) and aft of the mast shall be fitted in all boats first measured after 1st March 1984. This bulkhead may have a hatch with a watertight cover.
  - (ii) The radius between the bulkheads and the side or bottom panels of the hull shall not exceed 50mm.
  - (iii) Drain holes from the forward buoyancy compartment to the cockpit through the bulkhead at station 2 (±15mm) shall not exceed two in number, and each shall be of not more than 20mm in diameter and shall be closed while racing. There shall not be more than two drain holes into the aft buoyancy tank. They shall be made through the bulkhead at station 1 (±15mm)

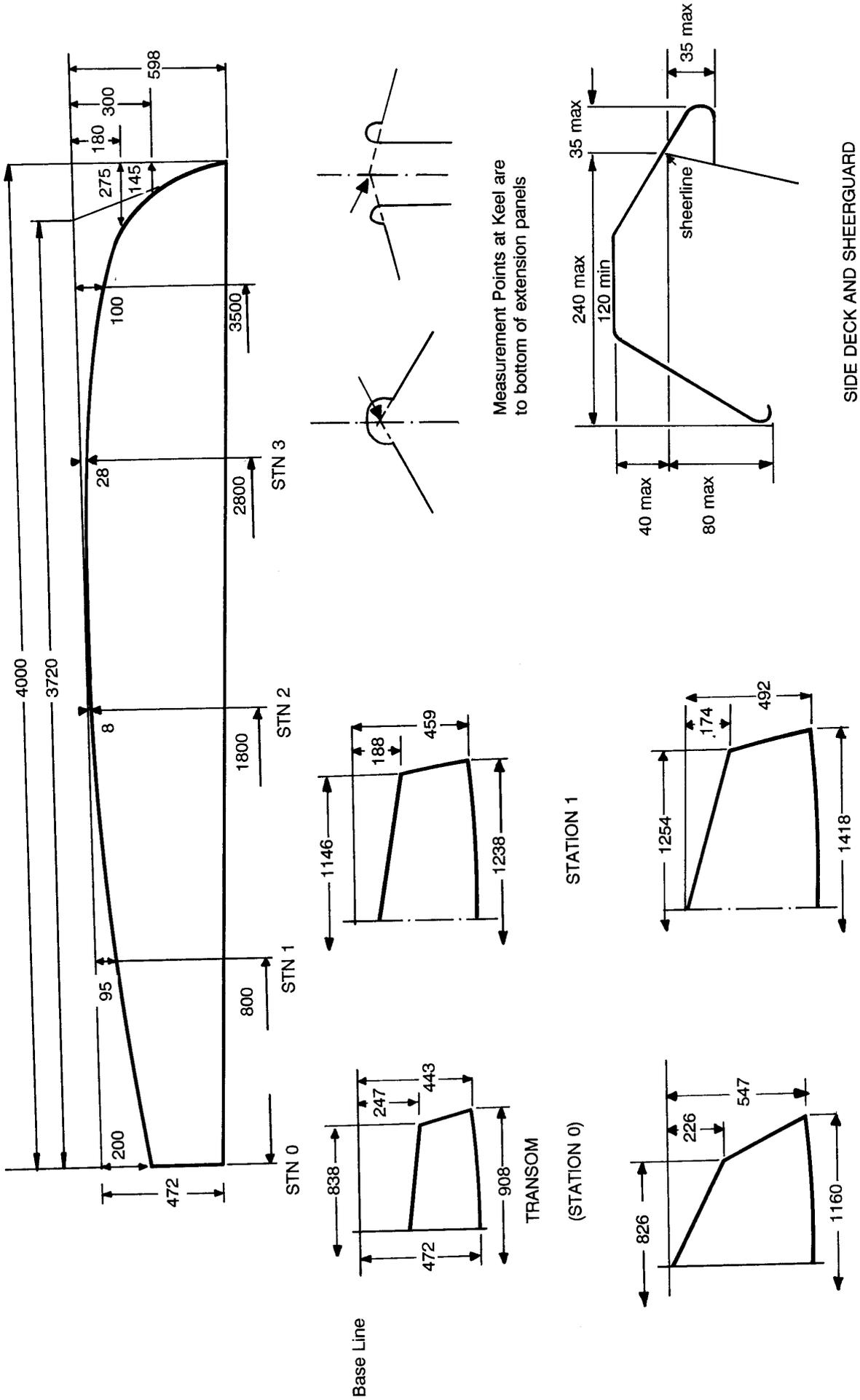
and shall each be of not more than 20mm in diameter and shall be closed while racing.

The mast compartment shall drain into the cockpit through a tube of diameter not less than 10mm and not more than 20mm.

- (iv) The horizontal width of each side deck, measured from the sheerline, shall be not more than 240mm or less than 120mm.
- (v) The side deck and/or carlin shall nowhere be higher than 40mm above nor 80mm below the sheerline. Struts to support the side deck are permitted but shall not exceed a total cross-sectional area of 50cm<sup>2</sup> per side, measured horizontally.
- (vi) The sheerline between stations 1 and 2 shall not be convex.
- (vii) At the centreline of the mast, the deck shall be 30mm ± 10mm above the sheerline. Measured athwartships the fore and aft decks shall not be concave.
- (viii) A sheerguard, not exceeding 35mm horizontally from the sheerline by 35mm vertically, may be fitted.
- (ix) Between station 3 and the transom, the radius on the chines shall not exceed 15mm.
- (x) The horizontal distance from the lowest point of the aft face of the transom to the centre of the centreboard bolt shall be 2400mm ± 10mm.
- (xi) Spare number.
- (xii) The mast step and deck bearing may be adjustable but shall not be adjusted while racing.
- (xiii) A keel band, minimum section 9mm wide by 3mm deep, maximum section 22mm wide by 10mm deep, of any material shall extend for a distance not less than 3500mm, measured along the keel band, from the aft face of the transom. The radius of the bow forward of a point 3500mm from the lowest point of the aft face of the transom, measured along the base line, shall not exceed 11mm.
- (xiv) Centreboard slot rubbers are prohibited.
- (xv) Hiking pads may be attached to the side decks, provided that they fall within the measurements prescribed by rules 8.4(iv), 8.4(v) and 8.4(viii). However, notwithstanding the provisions of rule 8.4(vi) padding up to 10mm thick is permitted to cover the sheerline measured at 90° to the surface.
- (xvi) A towing eye shall be fitted to the foredeck near the stemhead.

8.5 With the boat set up for measuring and with the base line horizontal the transom shall be not more than 12mm out of vertical.

# MEASUREMENT DIAGRAM



SIDE DECK AND SHEERGUARD

- 8.6 The length of the hull, excluding deck overlap but including stem band, if any, shall be 4000mm ± 10mm measured from the lowest point of the transom.
- 8.7 Measurement stations 1, 2, and 3 shall be at 800mm, 1800mm and 2800mm respectively from the lowest point of the aft face of the transom measured along the base line.
- 8.8 To check the profile of the keel, a baseline shall be positioned below the hull at distances from the bottom of the hull of 200mm at station 'O' and 28mm at station '3'. The bottom of the hull shall be the point at which the extensions of the surfaces of the panels intersect. The measurements shall be in the plane of the measurement stations.
- 8.9 A straight edge placed on the bottom panel at right angles to the centreline at stations 0, 1, 2 and 3 shall not exceed the distances from the bottom panel shown on the measurement diagram. A straight edge placed at right angles to the base line on the topside panel shall not be further than 8mm from the topside panel at any point. This measurement shall be made between the sheerline and the chine and not from the underside of the sheerguard.
- 8.10 The surface of the hull shall be checked with a flexible batten to ensure that the curvature of the hull is fair.
- 8.11 A breakwater may be fitted between the mast and the mainsheet horse or track.
- 8.12 The types, positions and arrangement of floor boards, fittings, self-bailers, sheeting and centreboard hoists are free. The mainsheet track may extend outboard to the topside panel. If the side-deck profile is cut away for this purpose the panel on which the track sits must satisfy rules 8.4(iv) and 8.4(v).

## **9. BUOYANCY**

- 9.1 All the space aft of the cockpit shall form a buoyancy compartment. The space forward of the cockpit shall be occupied by not less than 0.12 m<sup>3</sup> of closed cell expanded plastic foam material properly secured. Sandwich construction shall not be regarded as buoyancy for the purposes of this rule. Wooden boats first measured before 1st March 1980 in which the space forward of the cockpit is occupied by two compartments, each not less than 0.12 m<sup>3</sup> in volume, are not required to have 0.12 m<sup>3</sup> of expanded plastic foam material forward of the cockpit.
- 9.2 Additional buoyancy within the cockpit area is permitted under the side decks to a point not lower than 80mm below the sheerline. This buoyancy shall not be included in the requirements of rule 9.1.
- 9.3 At first measurement the measurer shall check the watertightness of buoyancy tanks, inspection ports and drain plugs. If the buoyancy is unsatisfactory the measurer shall not sign the measurement form until successful remedial measures have been taken.

## **10. CENTREBOARD**

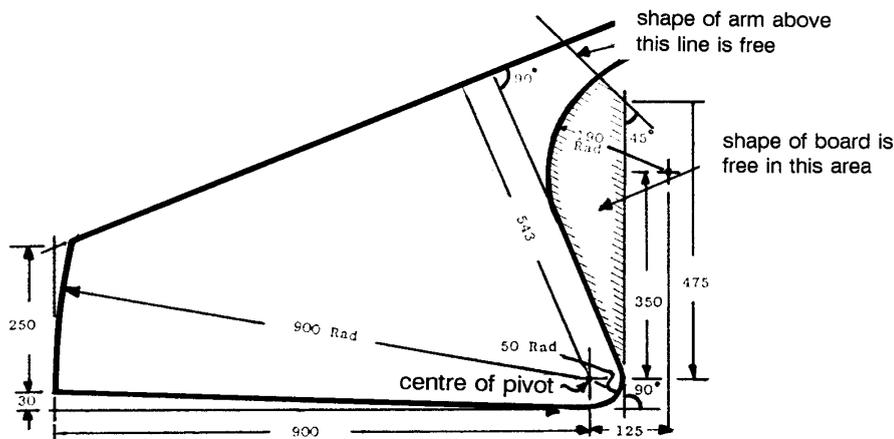
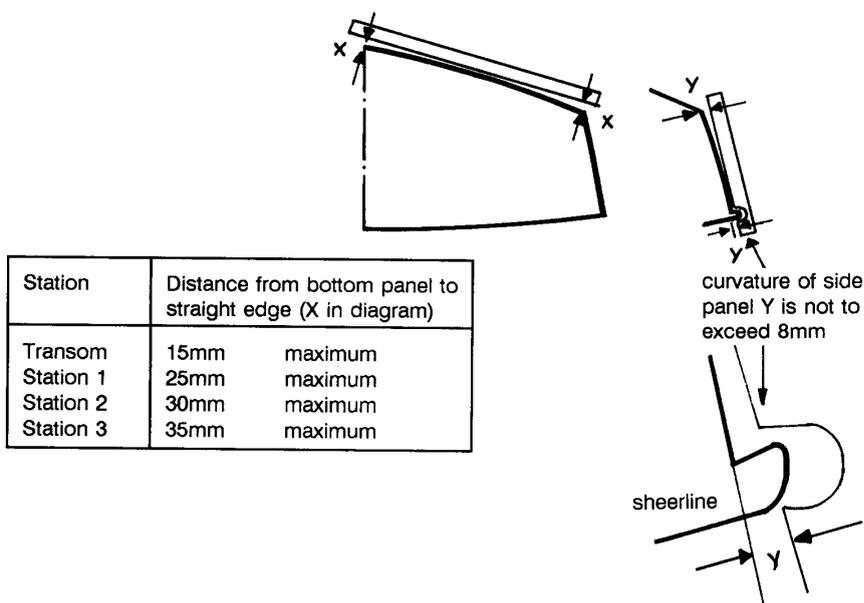
- 10.1 The centreboard shall be made of wood or metal except that a protecting strip of any material is permitted. Wood centreboards may be sheathed with GRP.
- 10.2 The thickness of the centreboard shall not exceed 20mm, including GRP sheathing if any, if made of wood and 6mm maximum if of metal.
- 10.3 Excluding any pivot slot, the profile of the measured part of the centreboard shall be within two lines, one 5mm outside, and the other 5mm inside the profile shown on the measurement diagram, when the pivot point in the centreboard lies on the pivot point shown on the measurement diagram.

A slot may be made between the pivot point in the centreboard and the perimeter. The slot shall be nowhere wider than 12mm. A device of adequate strength shall be fitted to prevent accidental

dislodgement. Maximum free movement of the centreboard on the pivot bolt shall be 2mm in any direction.

10.4 When the centreboard is fully raised it shall not project below the keel bands.

10.5 The extension of the centreboard below the keel, excluding the keelband, shall not exceed 800mm. A stop shall be fitted to prevent this dimension being exceeded.



CENTREBOARD

## 11. RUDDER BLADE

11.1 The rudder blade shall be made of wood except that a protecting strip of any material is permitted. The blade may be sheathed with GRP.

11.2 The thickness of the rudder blade below the waterline shall not exceed 20mm, including GRP sheathing (if any).

11.3 (a) The measured part of the rudder blade shall be within two lines, one 5mm outside and the other 5mm inside one of the two profiles shown on the measurement diagram.



(b)

- 11.4 Lifting rudder blades shall be pinned or bolted in the down position during racing in a separate place from the point at which the rudder blade pivots.
- 11.5 The distance between the foreside of the rudder or its extension and the transom shall be measured at deck level and at the keel. Neither measurement shall exceed 45mm and the difference between the two measurements shall not exceed 5mm. The intersection of the leading edges of the rudder shall not be lower than 50mm below the transom.
- 11.6 A safety device shall be fitted so that the rudder cannot come off its pintles unintentionally if the boat is inverted.

## 12. **MAST**

- 12.1 The mast shall be made of wood, aluminium alloy, GRP or any combination of these materials. The sail track may be of plastic.
- 12.2 Spare number.
- 12.3 The construction of the mast is optional but shall comply with the following requirements:
- (i) The aft side of the mast track shall be constructed straight and the line of the track, extended if necessary, shall be not more than 10mm outside the aft edge of the mast ring at the deck.
  - (ii) The diameter of the mast at the deck shall be not less than 94mm including bearing ring, if fitted.
  - (iii) The diameter of the heel of the mast shall be 73mm  $\pm$  3mm including bearing ring if fitted.
  - (iv) No part of the mast shall be more than 60mm from a straight line joining the centre of the heel and a point 20mm forward of the aft edge of the mast at the upper measurement band. If the mast has a permanent set, it shall be held straight when this measurement is taken.
- 12.4 Permanently bent masts are prohibited, but a set due to distortion of not more than 100mm is permitted.

- 12.5 Measurement bands, not less than 10mm wide, shall be marked on the mast, so that they are clearly discernible when racing, as follows:
- No. 1: The upper edge of which shall be not less than 265mm or more than 275mm above the top of the deck.
- No. 2: The whole of the mast and its fittings above a line 5400mm above the upper edge of band No. 1 shall be a contrasting colour.
- 12.6 The movement of the mast, at either the deck or the heel, shall not exceed 7mm.
- 12.7 There shall be a device of adequate strength such that the mast will not come out of the step when the boat is capsized.
- 12.8 The weight of the mast including all fixed fittings but excluding the halyard shall be not less than 8.5kg.
- 12.9 Corrector weights totalling not more than 0.8kg are permitted and shall be permanently fastened to the outside of the mast above the deck.
- 12.10 The centre of gravity of the mast in the condition described in 12.8 above and with corrector weights (if any) fitted shall be not less than 2100mm above the heel.

### **13. BOOM**

- 13.1 The boom shall be made of wood, aluminium alloy, GRP or any combination of these materials. The sail track may be of plastic.
- 13.2 A measurement band of a distinctive colour not less than 10mm wide shall be marked on the boom so it is clearly discernible when racing, with its forward edge not more than 2680mm from the aft edge of the mast sail track projected if necessary to the boom. A device shall be fitted to the boom to prevent any part of the sail extending aft of the forward edge of the measurement band.
- 13.3 The top of the boom including its sail track, extended if necessary, shall not be below the upper edge of the band No. 1 defined in rule 12.5, when the boom is at right angles to the mast.
- 13.4 The depth of the boom, including the sail track, forward of the band shall be 70mm  $\pm$  20mm and the width shall not exceed 37mm.
- 13.5 Spare number.
- 13.6 The boom shall be attached to the mast in such a way that the mast and the boom rotate as one.

### **14. WEIGHT**

- 14.1 The hull, including all hatches and fittings permanently attached to it by screws, bolts, resin, or glue, and pulley blocks attached to the hull and dry control lines shall not weigh less than 72kg. The centreboard, rudder, floorboards, and mainsheet are excluded from the weight.
- 14.2 If the hull is found to weigh less than 72kg, correctors weighing a total not exceeding 5kg shall be fastened to the aft face of the station 2 bulkhead underneath and touching the side decks. The total weight of correctors shall be recorded on the certificate. No correctors shall be removed or altered without the boat being reweighed by a measurer and the certificate amended in accordance with the procedures of the administering authority.
- 14.3 If the hull is found to require more than 5kg correctors, additional correctors of equal weight shall be attached to the underside of the deck at bow and transom. The total weight of correctors shall be recorded on the certificate. No correctors shall be removed or altered without the boat being

reweighed by a measurer and the certificate amended in accordance with the procedures of the administering authority.

## 15. **SAIL**

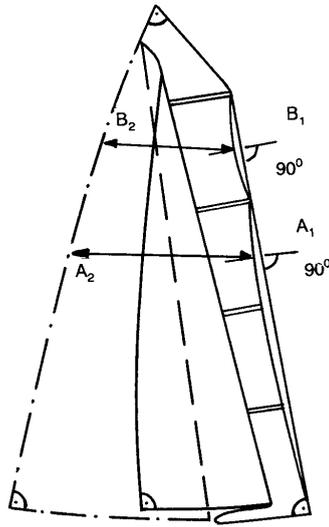
- 15.1 The sail shall be made and measured according to the 1986 ISAF Sail Measurement Instructions except where varied herein.
- 15.2 The class insignia, national letters and sail numbers shall comply with RRS 77. The class insignia shall be not less than 200mm high nor less than 335mm long.
- 15.3 Excluding permitted stiffening, the sail shall be made of the same woven cloth throughout, except that a window not exceeding 0.28m<sup>2</sup> may be fitted.
- 15.4 Batten pocket patches of a material not thicker than the maximum thickness of the ply of the body of the sail and not exceeding 175mm diameter are permitted at the inside end of each batten pocket.
- 15.5 No part of the sail shall extend beyond the lower edge of the upper mast band.
- 15.6 The headboard shall fit inside an equilateral triangle with sides not exceeding 150mm.
- 15.7 The following measurements shall be taken:
- (i) Leech-distance in a straight line from the head of sail to the upper edge of boltrope at the clew shall be not more than 5385mm.
  - (ii) The width of the sail at half and three-quarter heights shall not exceed 1750mm and 1130mm respectively. The respective sail widths shall be the distances from the half and three-quarter points of the leech (found by folding the head to the clew and the head to the half point of the leech) to points on the luff 2700mm and 1350mm from the head of the sail, measured while applying tension just sufficient to remove wrinkles.

### Measurement Instructions

With the battens removed mark the measurement points on the luff and leech as described in rule 15.6(ii). Fold the sail loosely with the battened area near the leech flat on the floor as shown in the diagram below (if elastic cord along the foot or luff does not allow the battened area to lie flat on the floor, the measurer may require the elastic cord to be removed from the sail for the measurement procedure).

Tension the leech between the clew and the aft end of the top batten pocket so that the leech adopts its natural shape. The clew shall be taken as the aftermost part of the sail projected to the foot or its extension.

If there are any hollows in the leech, either between battens or between a batten and the clew, measure distances  $A_1$  and  $B_1$ ; then unfold the sail and measure  $A_2$  and  $B_2$ . The width at half height is equal to the sum of  $A_1$  and  $A_2$ , while the width at three-quarter height is equal to the sum of  $B_1$  and  $B_2$ .



- (iii) The centre of the clew cringle shall be not more than 40mm from the boltrope or its extension. No clew outhaul arrangement shall have the centre of its fastening point in the sail more than 40mm above the boltrope or its extension.
- (iv) Four battens shall be fitted which shall divide the aft edge of the sail into five equal parts  $\pm$  100mm.
- (v) The length of the battens shall not exceed:
  - Numbers 1 and 4: 550mm.
  - Numbers 2 and 3: 700mm.

**16. ADDITIONAL RULES WHICH APPLY WHILE RACING**

16.1 Crew: One person shall be on board when racing.

16.2 Competitor Clothing and Equipment

- (a) Competitors shall not wear or carry clothing or equipment for the purpose of increasing their weight.
- (b) In accordance with RRS 43.1(b), a competitor's clothing and equipment shall weigh not more than 10kg, excluding footwear and other clothing only worn below the knee. The weight shall be determined as required by Appendix J.

16.2 Anchor: An anchor need only be carried when specifically prescribed in the Sailing Instructions.

16.4 Pumping: In accordance with RRS 86.1(c), RRS 42.3(b) is amended as follows: On a free leg of the course, when surfing (rapidly accelerating down the leeward side of a wave) or planing is possible, the yacht's crew may, in order to initiate surfing or planing, pump the sheet once for each wave or gust of wind. When the sail is pumped it shall be done through the bottom block with at least three parts of the mainsheet system.

<b><u>OFFICIAL PLANS</u></b>	1. General arrangement and Construction Details	1986
	2. Full Size Details	1986