The 49er Class was designed in 1995 by Julian Bethwaite and was adopted as an ISAF International Class in 1999.
# INDEX

## PART I – ADMINISTRATION

### Section A – General

<table>
<thead>
<tr>
<th>A.1 Language</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.2 Abbreviations</td>
<td>4</td>
</tr>
<tr>
<td>A.3 Authorities and Responsibilities</td>
<td>4</td>
</tr>
<tr>
<td>A.4 Administration of the Class</td>
<td>4</td>
</tr>
<tr>
<td>A.5 ISAF Rules</td>
<td>4</td>
</tr>
<tr>
<td>A.6 Class Rules Variations</td>
<td>4</td>
</tr>
<tr>
<td>A.7 Class Rule Amendments</td>
<td>5</td>
</tr>
<tr>
<td>A.8 Class Rules Interpretation</td>
<td>5</td>
</tr>
<tr>
<td>A.9 International Class Fee and ISAF Building Plaque</td>
<td>5</td>
</tr>
<tr>
<td>A.10 Licensed Manufacturers</td>
<td>5</td>
</tr>
<tr>
<td>A.11 Sail Numbers</td>
<td>5</td>
</tr>
<tr>
<td>A.12 Hull Certification</td>
<td>5</td>
</tr>
</tbody>
</table>

### Section B – Boat Eligibility

| B.1 Class Rules and Certification | 5 |
| B.2 Class Association Markings | 5 |
| B.3 Event Inspection | 5 |
| B.4 Event Limitation Marks | 6 |

## PART II – REQUIREMENTS AND LIMITATIONS

### Section C – Conditions for Racing

| C.1 General | 7 |
| C.2 Crew | 7 |
| C.3 Personal Equipment | 7 |
| C.4 Advertising | 7 |
| C.5 Portable Equipment | 8 |
| C.6 Boat | 8 |
| C.7 Hull | 8 |
| C.8 Hull Appendages | 10 |
| C.9 Rig | 10 |
| C.10 Sails | 12 |

### Section D – Hull

| D.1 Manufacturers | 13 |
| D.2 Parts | 13 |
| D.3 Identification | 13 |
| D.4 Materials, Construction and Dimensions | 13 |

### Section E – Hull Appendages

| E.1 Manufacturers | 13 |
| E.2 Parts | 13 |
| E.3 Identification | 14 |
| E.4 Materials, Construction and Dimensions | 14 |

### Section F – Rig

| F.1 Manufacturer | 14 |
| F.2 Parts | 14 |
| F.3 Identification | 14 |
| F.4 Materials, Construction and Dimensions | 14 |

### Section G – Sails

| G.1 Manufacturer | 14 |
| G.2 Parts | 14 |
| G.3 Identification | 14 |
| G.4 Materials, Construction and Dimensions | 14 |
INTRODUCTION

This introduction only provides an informal background and the International 49er Class Rules proper begin on the next page.

49er hulls, hull appendages, rigs and sails are manufacture controlled.

49er hulls, hull appendages, rigs and sails shall only be manufactured by Licensed Manufacturers – in the class rules referred to as Licensed Manufacturers.

Equipment is required to comply with the International 49er Builders Construction Manual and is subject to an ISAF approved manufacturing control system.

49er hulls, hull appendages, rigs and sails shall, after having left the manufacturer, only be altered to the extent permitted in Section C of the class rules.

Owners and crews shall be aware that compliance with rules in Section C is the responsibility of the competitor. Rules regulating the use of equipment during a race are contained in Section C of these class rules, in ERS Part I and in the Racing Rules of Sailing.

PLEASE REMEMBER

THESE RULES ARE CLOSED CLASS RULES WHERE IF IT DOES NOT SPECIFICALLY SAY THAT YOU MAY – THEN YOU SHALL NOT.

COMPONENTS AND THEIR USE, ARE DEFINED BY THEIR DESCRIPTION
PART I – ADMINISTRATION

Section A – General

A.1 LANGUAGE
A.1.1 The official language of the class is English and in case of dispute over the translation, the English text shall prevail.
A.1.2 The word “shall” is mandatory and the word “may” is permissive.

A.2 ABBREVIATIONS
A.2.1 ISAF International Sailing Federation
MNA ISAF Member National Authority
ICA International 49er Class Association
NCA National Class Association
ERS Equipment Rules of Sailing
RRS Racing Rules of Sailing
CRH Copyright Holder

A.3 AUTHORITIES AND RESPONSIBILITIES
A.3.1 The international authority of the International 49er Class is the ISAF, which shall cooperate with the ICA in all matters concerning these class rules.
A.3.2 Neither the ISAF or the ICA is under any legal responsibility in respect of these class rules.

A.4 ADMINISTRATION OF THE CLASS
A.4.1 ISAF has delegated its administrative functions of the class to the ICA.

A.5 ISAF RULES
A.5.1 These class rules shall be read in conjunction with the ERS.
A.5.2 Except where used in headings, when a term is printed in “bold” the definition in the ERS applies and when a term is printed in “italic” the definition in the RRS applies.

A.6 CLASS RULE VARIATIONS
A.6.1 ISAF Regulation 10.11 applies

A.7 CLASS RULE AMENDMENTS
A.7.1 In accordance with ISAF Regulations, amendments to the class rules require the approval of ISAF after their adoption by a simple majority vote of the members in a general meeting of the ICA held in accordance with its constitution.
A.8 CLASS RULE INTERPRETATIONS
A.8.1 Interpretation of class rules shall be made by ISAF in consultation with the class and CRH.
A.8.2 Interpretation of class rules at an event shall be carried out in accordance with the RRS. The event organising authority shall, as soon as practical after the event, inform the ISAF and ICA of any such interpretations.

A.9 INTERNATIONAL CLASS FEE AND ISAF BUILDING PLAQUE
A.9.1 Licensed manufacturers of hulls shall pay an International Class Fee for each hull manufactured.
A.9.2 The ICA shall, after having received the International Class Fee for the hull, send the ISAF Building Plaque to the Licensed Manufacturer.

A.10 LICENSED MANUFACTURERS
A10.1 49er equipment shall only be manufactured by those appointed and licensed by the CRH, in consultation with ISAF. Such licensees shall be referred to as Licensed Manufacturers within these class rules.

A.11 SAIL NUMBERS
A.11.1 Sail numbers shall be:
   (a) The number shown on the ISAF International Class building plaque; or
   (b) In the International 49er Class World Championship, Continental Championship and ISAF Sailing World Cup events, an ICA issued personal sail number between 1 – 999, which shall be renewed on an annual basis.
A.11.2 After the sale of the boat, the new owner shall use the sail number as in accordance with the ISAF hull plaque or his own personal number on his sails. In the event of a conflict, Hulls number 1 – 100 shall have the prefix “0” before the sail number.

A.12 CERTIFICATION
A.12.1 Written certification is not issued.
Section B – Equipment Eligibility

For a boat to be eligible for racing, it shall comply with the rules in this section.

B.1 CLASS RULES
B.1.1 The boat shall comply with the class rules.

B.2 CLASS ASSOCIATION MARKINGS
B.2.1 Sails shall carry an ICA sail label.
B.2.2 Wings, mast sections, mast spreaders, bowsprit, daggerboard and rudder blade shall carry an ICA 9er certified equipment label.

B.3 EVENT INSPECTION
B.3.1 GENERAL
A role of Equipment Inspectors at an event is to verify that equipment has been produced by a Licensed Manufacturer and has not been subsequently altered (other than as is permitted within these rules) using whatever inspection methods they deem appropriate, including comparison with a reference sample of the type of equipment presented for inspection. Should this comparison reveal deviation greater than what the Equipment Inspector considers being within manufacturing tolerances, the matter shall be reported to the race committee.

Such occurrences shall be reported to ISAF and the ICA technical committee as soon as practical for investigation and a ruling on the eligibility of the equipment for racing.

B.4 EVENT LIMITATION MARKS
B.4.1 Where an event uses event limitation marks these marks shall not be removed during the event. If the event limitation mark becomes damaged or lost this shall be reported to the event race committee as soon as practical.
PART II – REQUIREMENTS & LIMITATIONS

The crew and the boat shall comply with the rules in Part II when racing. In case of conflict Section C shall prevail.

The rules in Part II are closed class rules. Equipment control and equipment inspection shall be carried out in accordance with the ERS except where varied in this Part.

Section C – Conditions for Racing

C.1 GENERAL

C.1.1 RULES
(a) RRS 50.4 shall not apply.
(b) RRS 42.3 shall apply as amended below:
   Add to RRS 42.3
   (i) A boat’s crew may pump the mainsail repeatedly to release one or more battens.
   (j) A boat maybe sculled before the start if the sculling does not propel the boat.
(c) RRS 49.1 is amended such that both members of the crew may use trapeze.
(d) RRS Appendix G1.3(d) shall not apply

C.2 CREW

C.2.1 LIMITATIONS
The crew shall consist of two persons.

C.2.2 MEMBERSHIP
In all international events each crew member shall be a current member of the ICA.

C.3 PERSONAL EQUIPMENT

C.3.1 MANDATORY
(a) The boat shall be equipped with personal flotation devices (PFD) for each crew member to the minimum standard EN 393 or ISO 12402-5, level 50 or the notice of race may prescribe alternatives.
(b) The use of inflatable personal flotation devices is not permitted when racing.

C.4 ADVERTISING

C.4.1 Advertising as chosen by the Person in Charge is unrestricted as in accordance with ISAF Regulation 20.

C.4.2 For the purpose of ISAF Advertising Code, the gennaker shall be deemed a spinnaker.
C.5 PORTABLE EQUIPMENT

C.5.1 OPTIONAL
(a) Timing devices, removable for weighing.
(b) Maximum two compasses with brackets, removable for weighing.
(c) Electronic compasses with functions beyond heading and timing are prohibited.
(d) Spare parts and tools, removable for weighing.
(e) Camera recording equipment and attachments, where permitted by the Notice of Race and/or Sailing Instructions and removable for weighing.

C.6 BOAT

C.6.1 MODIFICATIONS, MAINTENANCE AND REPAIR
(a) The use of shock cord or adhesive tape is in general unrestricted, except that such material shall not be used in such a way as to create a fitting or extend a function of a permitted fitting.
(b) Replacement of non-skid tape or paint to the deck moulding and the wings is permitted.
(c) Any cleat may be replaced with a cleat of any material and substantially of the same size and design.
(d) Any cleat including integrated fairlead may be replaced with a cleat of any material and of substantially the same size and design.
(e) Any block may be replaced with a block of the same number of sheaves of similar or greater diameter. Ratchet blocks have no sheave diameter restrictions. Ratchet blocks may be used for the gennaker sheets and as the forward mainsheet block on the boom.
(f) Any attachment of blocks may be replaced. Attachments for blocks shall be of substantially the same size and design.
(g) Any other fitting than those mentioned in C.6.1 (e), and (f), shall only be replaced by the same model or a replacement model.
(h) Replacement fittings shall be fitted in the same position as the original fitting, or as close as is structurally possible.
(i) To facilitate advertising, painting and vinyl or similar may be added to the sails, hull and spars for this purpose except that as per C.7.3 (a) the hull shall not be painted.
(j) Fasteners may be replaced or added, if the function of the fitting or part is not altered and where required to facilitate a repair the fitting maybe modified to accommodate slightly larger fixings.

C.7 HULL

C.7.1 MODIFICATIONS,
(a) Maximum 4 foot straps on each wing for which holes may be drilled.
(b) A block, in the gennaker halyard behind the two floor blocks, with a sheave of not more than 20 mm diameter and attached with a shock cord, which may pass through an additional block with a sheave diameter of not more than 20 mm.
(c) One tie down loop is permitted on each gunwale flange to facilitate securing the hull to a trailer or beach dolly. The loop shall be permanently fastened to the gunwale flange using screws or bolts. Each loop shall be within 800 mm to 1000 mm behind the chain plates.

(d) Wedges or risers may be fitted under the jib sheet blocks, boom vang, cunningham and gennaker halyard cleats and wing mounted control lines.

(e) Fittings made from flexible material may be added along the rail forward of the chain plates on each side for the hull for the sole purpose of retaining the spinnaker sheets on the boat.

(f) The existing holes in the jib sheet track may be increased in diameter up to a maximum of 6.5mm. Additional holes are not permitted.

(g) No holes may be made in the hull or deck mouldings except:
   (i) for fittings specified in C.7.1 (a) and (c)
   (ii) for the purpose of making repairs.

(h) The daggerboard case packing may be replaced with any material. This packing shall not extend for more than 60mm into the trunk from the top or bottom, or beyond the surface defined by straight edge held perpendicular to the centreline and dragged along the bottom of the hull.

C.7.2 MAINTENANCE
   (a) The watertight integrity of the hull shall be maintained.
   (b) The breather hole in the centre plinth shall remain open and unrestricted.
   (c) Fittings may be bedded in provided they can be removed without damage to either the hull or fitting.

C.7.3 REPAIR
   (a) In the event of damage to any part of the hull, necessary repairs may be made provided repairs are made in such a way that the essential shape and function is not materially affected. Areas of damage repair may be filled, sanded and polished over.

C.7.4 LIMITATIONS
   (a) Only one hull shall be used in an event, except when lost or damaged beyond repair. Any replacement shall only be made with the approval of the Race Committee.
   (b) The wings shall be fully extended when racing

C.7.5 HULL WEIGHT
   (a) The weight of the hull including wings with gennaker blocks attached, gennaker sock, bowsprit, rudder stock including tiller and rudder pintle, rudder gantry, permanently fixed fittings and control lines including shock cord, foot straps and any hull corrector weight, but excluding daggerboard, rudder blade, tiller extensions, non-permanently fixed fittings and equipment listed in C.5 shall not be less than 94.0 kg with all items in a dry condition.
C.7.6 CORRECTOR WEIGHTS
   (a) Corrector weights of lead shall be permanently fastened to the top surface of the deck beside the mast step when the hull weight as in C.7.5 (a) is less than the minimum requirement.
   (b) The total weight of such corrector weights shall not exceed 2.0kg.

C.8 HULL APPENDAGES
C.8.1 MODIFICATIONS, MAINTENANCE AND REPAIR
   (a) Repairs to chips in the leading and trailing edge may be filled and blended in. (Advisory note: nowhere is re-finishing, fairing of the daggerboard and rudder blade permitted except to facilitate localised repair in this rule. Painting is not mentioned therefore as these are closed class rule it is prohibited.)
   (b) The tiller forward of the rudder stock may be modified.
   (c) The rudder stock packing may be replaced with any material.
   (d) The tiller extensions may be replaced without any restrictions as to design and material.

C.8.2 LIMITATIONS
   (a) Only one daggerboard and one rudder blade shall be used during an event except when an item has been lost or damaged beyond repair. Any replacement shall only be made with the approval of the Race Committee.
   (b) In the Olympic Sailing Competition, World Championships, Continental Championships, ISAF Sailing World Cup and other ISAF grade 1 events the daggerboard and rudder blade identifiable by the embossed 49er logo shall used.

C.9 RIG
C.9.1 MODIFICATIONS, MAINTENANCE AND REPAIR
   (a) Standing rigging may be replaced and shall comply with the following:
      (i) Construction shall be 1 x 7 stainless steel wire rope
      (ii) The forestay, middle shrouds and lower shrouds shall be of diameter minimum 3.0mm, maximum 3.5mm.
      (iii) The upper shrouds shall be of diameter 2.3 mm minimum, 2.6 mm maximum
   (b) The lower shroud may be fitted with a turnbuckle between the wire end and the hull fixing point.
   (c) The lower part of the forestay and shrouds, and their attachment fittings may be covered with protective covering; however, the function of the fittings shall not be changed.
   (d) Rig pins may be replaced by quick pins or any other type of pins.
   (e) Tufts or ribbons in the rigging.
   (f) The cap shroud and primary shroud may be fitted with a turnbuckle between the shroud plate and the hull fixing point.
C.9.2 LIMITATIONS
(a) Only one set of spars and standing rigging shall be used except when an item has been lost or damaged beyond repair. Any replacement shall only be made with the approval of the Race Committee.
(b) In the Olympic Sailing Competition, World Championships, Continental Championships, ISAF Sailing World Cup and other ISAF grade 1 events, only the 3 piece carbon mast and the bowsprit with the white safety banding at each end and forward end cap fitting shall be used.

C.9.3 DIMENSIONS
(a) The forestay length is controlled by laying the forestay along the forward face of the mast spar and measuring the extension of the forestay beyond the mast heel. This distance shall be taken between the forward extension of the bottom of heel tenon and the bearing surface of the forestay pin and shall be minimum 425mm and maximum 435mm.

C.9.4 FITTINGS
(a) Optional mechanical wind indicators.

C.9.5 STANDING RIGGING
(a) USE
   (1) The forestay shall be fitted to the centre hole of the stem head fitting.
   (2) Standing rigging shall not be adjusted after the start.

C.9.6 RUNNING RIGGING
(a) MODIFICATIONS, MAINTENANCE AND REPAIR
   (i) The trapeze wires may be replaced with stainless steel wire of not less than 2.0 mm diameter or by lines of any material of not less than 3.0 mm diameter.
   (ii) Sheets and lines may be replaced without any restrictions as to length, diameter and taper providing the part is not made of wire.
   (iii) A continuous main sheet and jib sheet is permitted.
   (iv) A fairlead/eye for the end of the mainsheet may be attached to the floor plinth.
   (v) Mainsail halyard and jib halyard may be replaced by lines of any material.
   (vi) Mainsail, jib and gennaker halyards may be lead externally
   (vii) A block may be added in the gennaker halyard between the sail and the mast spar, with a sheave of not more than 20 mm diameter. This block may be attached to a shock cord lead through a shackle, existing fitting or loop of rope on the mast and then attached to the mast spar.
   (viii) Shock cord tails may be added to ropes.
   (ix) A clip or shackle may be fitted at the end of the jib sheet attachment line where it attaches to the clew board of the jib.
(x) The trapeze arrangement may be modified to include a continuous system and/or adjustable hook height provided that the attachment methods to the mast spar and the wings are not changed.

(xi) The boom vang take-off block shall be attached to a mast strop.

(b) USE

(1) **Running rigging** shall be led through and attached to the fittings supplied for the function.

---

**C.10 SAILS**

**C.10.1 MODIFICATIONS, MAINTENANCE AND REPAIR**

(a) **Sails** shall not be recut, except as permitted in C.10.4(a), or otherwise change or affect any aspect of the sail or pierce the sail for any reason other than effecting necessary repairs or as permitted by these rules.

(b) The length of the battens may be altered to adjust the tension in the batten pocket, provided the batten fits within the original pocket and the sail is not altered other than by cutting and renewing the batten pocket stitching at either end.

(c) The sail battens identified by a unique identification graphic and as supplied by a licensed manufacturer and shall not be altered in stiffness.

(d) Tell Tales on the sails.

(e) Chaffing patches may be added to mainsail.

**C.10.2 LIMITATIONS**

(a) Not more than 1 mainsail, 1 jib and 1 gennaker shall be used during an event except when a sail has been lost or damaged beyond repair. Any replacement shall only be made with the approval of the Race Committee.

**C.10.3 MAINSAIL**

(a) **IDENTIFICATION**

(i) In the International 49er Class World Championship, Continental Championships and ISAF Sailing World Cup events, the sail numbers shall be white in colour and applied to the sail, back to back, on a black circular background, immediately below batten 4 from the head point and within 100 mm of the leech. The national letters shall be white in colour and applied to the sail, back to back, on a black oval background immediately below batten 4 from the head point and within 300 mm of the luff. The black backgrounds, national letters and numbers shall be ordered and purchased from the ICA and shall not be trimmed or cut. This amends RRS Appendix G1.3(a) & (c).

(ii) At other events, the national letters and the sail numbers shall be either as prescribed in C.10.3(a)(i) or shall be black in colour and applied back to back on a white background to the sail immediately below batten 4 from the head point. The white background shall be ordered and purchased from the ICA and shall not be trimmed or cut. The national letters and numbers shall be placed on the same plane and shall comply with the RRS Appendix G except where specified otherwise.
(iii) A skipper or crew who has won a 49er World Championship may add an 80mm diameter gold dot for each World Championship title won immediately below the 49er class insignia.

(b) NATIONAL FLAGS

(i) All teams when racing in the International 49er Class World Championship, Continental Championship and ISAF Sailing World Cup events shall display the national flag of the helmsperson. The flag shall be placed on the port side of the mainsail between the 3rd and 4th battens from the head point of the sail. The national flag is optional at all other events.

(ii) Flags shall only be ordered and purchased through the ICA and shall not be trimmed or cut.

C.10.4 GENNAKER

(a) MODIFICATIONS

The gennaker may be modified by having graphics cut in, which shall not extend within 1000 mm of the head point or tack and shall not extend into the two outer panels or the luff, leach or foot. Such actions may not alter the original shape of the sail.

(b) LIMITATION

IOC/ISAF Olympic national flag gennaker may be used for racing except in World Championship events.

Section D – Hull

D.1 MANUFACTURERS

(a) Hull and wings shall only be manufactured by Licensed Manufacturers.

D.2 PARTS

(a) Hull

(b) Wings

(c) Gennaker sock

D.3 IDENTIFICATION

The hull shall carry the licensed manufacturer’s serial number displayed on the aft trailing edge of the transom.

The wings shall carry an ICA 9er certified equipment label

D.4 MATERIALS, CONSTRUCTION AND DIMENSIONS

Shall comply with the ISAF approved Builders Construction Manual
Section E – Hull Appendages

E.1 MANUFACTURERS
(a) Hull appendages, Rudder stock and Rudder gantry shall only be manufactured by Licensed Manufacturers.

E.2 PARTS
(a) Daggerboard
(b) Rudder Blade
(c) Rudder stock
(d) Rudder gantry

E.3 IDENTIFICATION
The daggerboard and rudder blade shall carry the embossed 49er logo and ICA 9er certified label at the head of each appendage.

E.4 MATERIALS, CONSTRUCTION AND DIMENSIONS
Shall comply with the ISAF approved Builders Construction Manual.

Section F – Rig

F.1 MANUFACTURER
Rig shall only be manufactured by a Licensed Manufacturer.

F.2 PARTS
(a) Mast
(b) Spreaders
(c) Boom
(d) Bowsprit
(e) Boom vang lever
(f) Boom vang arms
(g) Running rigging

F.3 IDENTIFICATION
The mast sections, spreaders and bowsprit shall carry an ICA 9er certified equipment label.

F.4 MATERIALS, CONSTRUCTION AND DIMENSIONS
Shall comply with the ISAF approved Builders Construction Manual.

Section G – Sails

G.1 MANUFACTURER
Sails shall only be manufactured by a Licensed Manufacturer.
G.2 PARTS
   (a) Mainsail
   (b) Jib
   (c) Gennaker

G.3 IDENTIFICATION
The mainsail, jib and gennaker shall carry the ICA sail label

G.4 MATERIALS, CONSTRUCTION, AND DIMENSIONS
Shall comply with the ISAF approved Builders Construction Manual.

Effective Date: 14 June 2013
Published Date: 14 June 2013
Previous issues: 1 March 2012
                 25 May 2010
                 21 December 2009

© ISAF 2013