

# RS 100

## CLASS RULES

2010



*Closed class rules for a "Manufacturer controlled" class.*

*This version has been updated to reflect the changes to the ERS 2009-2012*

*Date of this version - 2010-03-26*

The RS 100 was designed in 2009 by Paul Handley

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# INTRODUCTION

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*The RS 100 is a one-design racing boat, suitable for youth and adult sailors for both training and racing. It has been designed around the principle that the racing results should depend solely on the attributes and skills of the crew. The fundamental objective of these class rules is to ensure that this concept is maintained.*

*RS 100 hulls, hull appendages, rigs and sails shall only be manufactured by licensed manufacturers. Equipment is required to comply with the RS 100 Building Specification and is subject to an approved manufacturing control system.*

*RS 100 hulls, hull appendages, rigs and sails may, after having left the manufacturer, may only be altered to the extent permitted in Section C of the class rules.*

*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.*

*This introduction only provides an informal background and the RS 100 Class Rules proper begin on the next page.*

# PART I – ADMINISTRATION

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## Section A – General

### A.1 LANGUAGE

- A.1.1 The official language of the class is English and in case of dispute over 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 RS 100 International Class Association/Owner’s Club
- NCA National RS 100 Class Association/Owner’s Club
- ERS Equipment Rules of Sailing
- RRS Racing Rules of Sailing
- LIC Licensors - Copyright Holder and RS Racing

### A.3 AUTHORITIES

- A.3.1 The international authority of the class is the ICA which shall co-operate with the LIC in all matters concerning these **class rules**.
- A.3.2 The ICA, an NCA, an MNA or LIC are under no legal responsibility in respect of these **class rules**.

### A.4 ADMINISTRATION OF THE CLASS

- A.4.1 The class is administered by the ICA which shall co-operate with the LIC. The ICA may delegate part or all of its administrative functions to an NCA.
- A.4.2 In countries where there is no NCA, or the NCA does not wish to administrate the class, its administrative functions shall be carried out by the ICA in co-operation with the NMA, or by the NMA in co-operation with 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 “*italics*” the definition in the RRS applies.

### A.6 CLASS RULES VARIATIONS

- A.6.1 At Class Events – see RRS 87.1.d) – ISAF Regulation 26.5(f) applies. At all other events RRS 86 applies.

### A.7 CLASS RULES AMENDMENTS

- A.7.1 Amendments to these **class rules** are subject to the approval of the ICA and LIC in accordance with the ICA regulations.

## **A.8 CLASS RULES INTERPRETATION**

- A.8.1 Interpretations of **class rules** shall be made by the ICA and LIC in accordance with the ICA Regulations.
- A.8.2 Interpretations of **class rules** that are required during an event shall be made in accordance with the ISAF Regulations and the race organising authority shall, as soon as practical after the event, inform the ICA and LIC of the event ruling.

## **A.9 SAIL NUMBERS**

- A.9.1 Sail numbers shall be issued by the LIC.
- A.9.2 Sail numbers shall be issued in consecutive order starting at “100”.

# **Section B – Boat Eligibility**

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

## **B.1 CLASS RULES COMPLIANCE**

- B.1.1 The boat shall be in compliance with these **class rules**.
- B.1.2 In the event of a dispute alleging non-compliance with these **class rules**, the following procedure shall be adopted:
  - a) A sample of the dimensions for the disputed item shall be obtained by taking the identical measurement from five boats or items of equipment, which are not the subject of the dispute.
  - b) The dimension of the disputed boat or items of its equipment taken using the same technique as above shall be compared to the sample.
  - c) If any of the dimensions obtained from the disputed boat or item of equipment lie outside the corresponding range of dimensions found in the sample by more than 10% of that range the matter together with the details of the measurement methods and any other relevant information shall be referred to ICA

## **B.2 CLASS ASSOCIATION**

- B.2.1 A valid Class Association Sticker, when required by the NCA, shall be affixed to the hull in a conspicuous position.

# PART II – REQUIREMENTS AND LIMITATIONS

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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**. Any **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 The RS 100 shall be raced with one person on board (the **crew**).
- C.1.2 The RS 100 may be raced with either the 8.4m<sup>2</sup> or the 10.2m<sup>2</sup> mainsail.
- C.1.3 The **bowsprit** shall be retracted so that it's forward end is within 200mm of the forward most point of the **hull** at all times other than when the spinnaker is set or in the act of being set or recovered

### C.2 CREW ELIGIBILITY

- C.2.1 To be eligible to compete in events run under the auspices of an NCA the **crew**, boat owner, or a nominated representative of an organisation owning the boat must be a member of the NCA

### C.3 PERSONAL EQUIPMENT

- C.3.1 The **boat** shall be equipped with **personal buoyancy** for each crew member to the minimum standard EN 393: 1995 (CE 50 Newtons), or USCG Type III, or AUS PFD 1.

### C.4 ADVERTISING

#### C.4.1 LIMITATIONS

Advertising shall only be displayed in accordance with Category C of the ISAF Advertising Code.

### C.5 PORTABLE EQUIPMENT

- C.5.1 The following optional equipment may be used onboard and attached to the hull or rig providing that attachments do not puncture the hull skin:
  - (a) Compass, timing device or a combination of both provided that it/they can only provide information relating to the boat's heading and time (current or elapsed).
  - (b) Maps, charts and means for recording compass headings
  - (c) Bags, ties or tape to secure safety or other permitted equipment.
  - (d) Items to stow food and/or drinks.
  - (e) Any additional equipment required for safety purposes.

## **C.6 BOAT ALTERATIONS**

- C.6.1 Replacements for any boat equipment, including spars, sails, foils, rudder stock, tiller or fittings, shall be only those produced by a manufacturer licensed by LIC except where otherwise authorised by this section.
- C.6.2 Repairs and maintenance may be carried out provided repairs are made in such a way that the essential shape, characteristics or function of the original are not affected. Maintenance shall include the replacement of fastenings with alternatives provided that the equipment is replaced in the original position.

## **C.7 HULL**

### **C.7.1 HULL MAINTENANCE AND REPAIR**

Polishing or burnishing of the hull is permitted.

### **C.7.2 REPLACEMENT OF HULL FITTINGS**

The following parts or equipment may be replaced providing that the replacement is similar and performs the same function. The replacement parts or equipment may be obtained from any supplier:

- Blocks
- Bungs
- Toe straps, lashings and tensioning elastics
- Inspection hatches
- Cam and clam cleats
- Rudder hangings and retaining devices
- Shroud adjusters
- Control lines
- Fastenings
- Shackles, swivels, pins
- Centreboard slot gasket.

### **C.7.3 ADDITIONS AND ALTERATIONS TO HULL**

The following additions and alterations are permitted. Parts may be obtained from any supplier:

- Non slip material of any kind (maximum thickness 2.5mm) may be added to the deck and cockpit.
- The use of flexible adhesive tape, shock cord, and "velcro" type fastening as long as this does not modify the intended purpose or action of any equipment
- Calibration marks of any kind
- Clips, ties or bags to secure safety or other or other equipment

The insertion of any item(s) in the centreboard case that displaces water is prohibited

Additional drainage holes and inspection hatches provided they do not compromise the watertight integrity of any hull compartments  
Packers may be fitted under cleats.

The slot gasket may be trimmed, taped, glued or faired in as required

## **C.8 CENTERBOARD AND RUDDER**

### **C.8.1 MAINTENANCE AND REPAIR OF FOILS**

Polishing or burnishing of the centerboard or rudder blade is permitted.  
The head of the centreboard or rudder may be packed or sanded to maintain a good fit in the centreboard slot.

### **C.8.2 TILLER EXTENSION**

Tiller extension may be replaced, and is unrestricted in type or length.

## **C.9 RIG**

### **C.9.1 MAINTENANCE OF RIG**

The following rigging may be replaced. The replacement parts or equipment may be obtained from any supplier: -

Running rigging, ropes and lashings, so long as they are of a uniform diameter.

Main Halyard and halyard securing device, maximum velocity ratio 1:1

Wire rigging with the following restrictions on construction and sizes:-

Shrouds – stainless steel wire of minimum 2.5mm dia

Spinnaker ratchet blocks

Painter, safety lines, elastic and other supplied lines

### **C.9.2 ADDITIONS AND ALTERATIONS TO RIG**

The following additions and alterations to the rig are permitted. Parts may be obtained from any supplier:

Any number and design of mechanical wind indication devices may be fitted

The total velocity ratio in each of the control line systems may not exceed:

- Gnav – as supplied, Cunningham – 8:1

The mainsheet may be sheeted from the boom or cockpit mounting point.

The use of a cleat, type of swivel base and final turning block for the mainsheet is optional. Any of the mainsheet blocks may be replaced by a ratchet block.

The spinnaker halyard / downhaul may be of tapered diameter, and its routing and operation is not restricted. Additional blocks may be used as required, but can only be lashed to an existing fitting.

One gybing strop may be added, defined as a length of rope, of maximum 8mm diameter, attached to the forward mainsheet block eye on the boom.

A single block or ring may be utilised at the lower end of the gybing strop.



The length of the gybing strop, measured from the underside of the boom and including any block or ring, shall not exceed 1 metre. The gybing strop shall only be used during the gybing manoeuvre. The gybing strop may be tensioned with shockcord.

Hooks, hooked blocks, and snapshackles maybe utilised to facilitate rigging, so long as they do not modify the intended action or performance of equipment or sails.

## **C.10 SAILS**

### **C.10.1 SAIL MAINTENANCE AND REPAIR**

- (a) Routine maintenance and repairs are permitted
- (b) Sail battens and batten tensioning devices may be replaced with parts obtained from any supplier. Sail battens may be tapered or adjusted as required

### **C.10.2 MAINSAIL IDENTIFICATION**

- (a) The national letters and sail numbers shall comply with the RRS except where prescribed otherwise in these **class rules**. The sail number shall be displayed on each side of the mainsail between the 2<sup>nd</sup> and 3<sup>rd</sup> batten down, with the upper numbers on the starboard side. The national letters shall be displayed between the lower 2 battens, with the upper letters on the starboard side.
- (b) The Class Insignia shall be the RS 100 class logo as prescribed by the LIC, and shall be displayed between the 1<sup>st</sup> and 2<sup>nd</sup> batten down, on the top half of the mainsail, in compliance with the RRS.
- (c) There is no requirement to carry sail numbers and national letters on the spinnaker

## **Section D – Hull**

### **D.1 HULL SPECIFICATION**

- D.1.1 The hull shall comply with the Building Specification in force at the time of manufacture.

### **D.2 HULL MANUFACTURER**

- D.2.1 The hull shall be built by a manufacturer licensed by the LIC to produce hulls.
- D.2.2 All production moulds used for hull manufacture shall be approved by the LIC.

### **D.3 HULL IDENTIFICATION**

- D.3.1 Each hull shall carry a moulded-in hull number.
- D.3.2 Each hull shall have its sail number displayed on the transom face, between the rudder fittings.

#### **D.4 HULL ALTERATIONS**

- D.4.1 The hull shall not be altered in any way except as permitted by Section C of these **class rules**.

#### **D.5 HULL FITTINGS**

- D.5.1 Hull fittings shall comply with the Building Specification in force at the time of manufacture except when altered, added or replaced as permitted by Section C of these **class rules**.

### **Section E – Daggerboard and rudder**

#### **E.1 FOILS SPECIFICATIONS**

- E.1.1 The daggerboard, rudder blade and rudder stock/tiller assembly shall comply with the Building Specification in force at the time of manufacture.

#### **E.2 FOILS MANUFACTURER**

- E.2.1 The daggerboard, rudder blade and rudder stock/tiller shall be made only by a manufacturer licensed by the LIC to produce these.

#### **E.3 FOILS ALTERATIONS**

- E.3.1 The daggerboard, rudder blade and rudder stock/tiller shall not be altered in any way except as permitted by Section C of these **class rules**.

### **Section F – Rig**

#### **F.1 SPARS**

- F.1.1 **Spars** and their fittings shall comply with the Building Specification in force at the time of manufacture of the **spar**.

#### **F.2 SPAR MANUFACTURER**

- F.2.1 **Spars** and their fittings shall be made only by a manufacturer licensed by the LIC to produce spars.

#### **F.3 SPAR ALTERATIONS**

- F.3.1 **Spars**, their fittings and rigging shall not be altered in any way except as permitted by Section C of these **class rules**.

### **Section G – Sails**

#### **G.1 SAIL SPECIFICATIONS**

- G.1.1 The **sails** shall comply with the Building Specification in force at the time of manufacture of the **sail**.

**G.2 SAIL MANUFACTURER**

- G.2.1 The **sails** shall be made only by a manufacturer licensed by the LIC to produce sails.

**G.3 SAIL ALTERATIONS**

- G.3.1 The **sails** shall not be altered in any way except as permitted by Section C of these **class rules**.