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29er

# Class Rules

## International 29er Class Association



The 29er Class was designed in 1997 by Julian Bethwaite and was adopted as a World Sailing International Class in 2001

sport / nature / technology

  
World Sailing  
Class Association

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# INTRODUCTION

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*This introduction only provides an informal background and the International 29er Class Rules proper begin on the next page.*

*29er hulls, hull appendages, rigs and sails are manufacture controlled.*

*29er 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 29er Builders Construction Manual and is subject to a WS approved manufacturing control system.*

*29er hulls, hull appendages, rigs and sails may, after having left the manufacturer, only be altered to the extent permitted in Section C of the class rules.*

*Owners and crews should be aware that compliance with rules in Section C is responsibility of the sailor. 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

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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 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 WS World Sailing
- MNA WS Member National Authority
- ICA International 29er Class Association
- NCA National Class Association
- ERS Equipment Rules of Sailing
- RRS Racing Rules of Sailing
- CRH Copyright Holder
- TC Technical Committee
- MCE Manufacturers Certified Equipment
- RC Race Committee

### A.3 AUTHORITIES AND RESPONSIBILITIES

- A.3.1 The international authority of the International 29er Class is WS, which shall cooperate with the ICA in all matters concerning these **class rules**.
- A.3.2 Neither WS or the ICA is under any legal responsibility in respect of these **class rules**.

### A.4 ADMINISTRATION OF THE CLASS

- A.4.1 WS has delegated its administrative functions of the class to the ICA.

### A.5 WS 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 WS Regulation 10.11 applies

### A.7 CLASS RULE AMENDMENTS

- A.7.1 In accordance with WS Regulations amendments to the **class rules** require the approval of WS 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 WS 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 WS and ICA of any such interpretations.

## **A.9 INTERNATIONAL CLASS FEE AND WS 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 WS Building Plaque to the Licensed Manufacturer.

## **A10 LICENSED MANUFACTURERS**

- A10.1 29er equipment shall only be manufactured by those appointed and licensed by the CRH in consultation with WS. Such licensees shall be referred to as Licensed Manufacturers within these **class rules**.

## **A.11 SAIL NUMBERS**

- A.11.1 Sail numbers shall correspond to the number shown on the WS International Class building plaque except where stated otherwise in these **class rules**.
- A.11.2 Competitors chartering boats may use sails brought with them and shall be marked with the number shown on the WS International Class building plaque of any hull still owned by them, on any boat owned by them or on any boat loaned or chartered for this event.

## **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 MCE **sail label**.

B.2.2 **Mast**, spreaders, **bowsprit**, **daggerboard** and **rudder** blade shall carry an MCE 9er equipment label.

# **PART II – REQUIREMENTS & 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**. 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) If the wind is consistently 10 knots or above, measured at deck level, the RC may signal in accordance with RRS Appendix P5 that “pumping, rocking an ooching” are permitted. This changes RRS 42.2(a), RRS 42.2(b) and RRS 42.2(c).
- (b) RRS 49.1 is amended such that 1 member of the crew may use a trapeze.
- (c) RRS G1.3(a) is changed so that only one Class insignia on one side of the sail is required.
- (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 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 ISO 12402-5 , or USCG Type III, or AS 4758 Level 50 or equivalent.
- (b) Each competitor shall carry at all times a SOLAS approved whistle.
- (c) The use of inflatable buoyancy vests is not permitted while racing.

#### **C.3.2 OPTIONAL**

- (a) One trapeze harness. The weight shall not exceed 2.4 kg, measured according to current version of RRS, appendix H. This changes RRS 50.1(b).
- (b) As permitted by RRS 50.1(c) any trapeze harness to be worn or used is not required to be a quick release type harness.

### **C.4 ADVERTISING**

#### **C.4.1 Advertising is permitted as provided in WS Regulation 20.**

- C.4.2 For the purpose of the WS Advertising Code, the mainsail **tack** shall be taken as the lowest point of the forward edge of the mast sleeve and the length of the **foot** shall be taken to be 2100 mm.
- C.4.3 For the purpose of WS Advertising Code, the gennaker shall be deemed a spinnaker.

## **C.5 PORTABLE EQUIPMENT**

### **C.5.1 OPTIONAL**

- (a) Timing devices with bracket, removable for weighing.
- (b) Maximum two compasses with brackets or retaining lines, removable for weighing.
- (c) Electronic compasses with functions beyond heading, heading memory and timing are prohibited
- (d) Spare parts and tools, removable for weighing.
- (e) Camera recording equipment and attachments and/or race tracking equipment where permitted by the ICA, Notice of Race and/or Sailing Instructions and removable for weighing,
- (f) The use of a mast float is optional in all except the World Championship, European Championship and Euro Cup events.

## **C.6 BOAT**

### **C.6.1 MODIFICATIONS, MAINTENANCE AND REPAIR**

The following is permitted without the approval of the ICA TC. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function.

- (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.
- (b) Replacement of non-skid tape or paint to the deck moulding is permitted.
- (c) Any cleat may be replaced with a cleat of any material and of substantially 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 a mainsheet block.
- (f) Any attachment of blocks may be replaced. Attachment for blocks shall be of substantially the same size and design.
- (g) Any other fitting than those mentioned in C.6.1 (c), (d), (e), (f) and (p), shall only be replaced by the same model or a replacement by a licensed builder.
- (h) Replacements shall be fitted in the same position as the standard 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) hull may not be painted.
- (j) The distance between the centre of the centre hole in the stemhead fitting and the front face of the **mast spar** at the top of the heel plug, measured in a straight line between these two points shall be a minimum 1820mm maximum 1830mm.
- (k) An additional wedge may be fitted under the mast partner, adjacent to and in front of the gennaker halyard turning block to facilitate the retraction of the **bow sprit**.
- (l) The **shrouds** may be fitted with a turnbuckle between the wire end and the hull fixing point.
- (m) Springs or riser of any material may be used to hold the gennaker block in an upright position.
- (n) The use of thimbles, clips rings, balls or similar may be added to direct control lines and their shock cord take ups.
- (o) Tails of control lines may include a single small handle or a ball.
- (p) Any toe strap may be replaced with a toe strap of any material and of substantially the same size and design.
- (q) A mainsheet block retaining line is permitted.

## C.7 HULL

The following is permitted without the approval of the ICA TC. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function.

### C.7.1 MODIFICATIONS,

- (a) Maximum 2 foot straps on each gunwale 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 shockcord, which may pass through an additional block with a sheave diameter of not more than 20 mm.
- (c) One tie down loop, bolted through the gunwale flange on each side to be totally within 700 mm to 1000 mm in front of the rear corner of the gunwale chainplates, to facilitate securing the **hull** to a trailer or dolly.
- (d) Wedges may be fitted under the vang, and cunningham and gennaker halyard cleats.
- (e) Fittings made from flexible material may be added along the rail forward of the chainplates on each side for the hull for the sole purpose of retaining the gennaker sheets on the boat.
- (f) 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.
  - (iii) for the purpose of converting to the 29erXX racing configuration

- (g) The **daggerboard** case packing may be of any material and shall not extend less than 20mm or more than 100mm from the top and bottom of the case.
- (h) For **hulls** with an WS Building Plaque number less than 1400,
  - (a) The horizontal underside of the mast partner and the aft flange including that attached to the cockpit may be reinforced with glass fibre and either polyester or vinylester resin provided such reinforcement does not exceed 50mm in width when measured at 90 degrees to the aft flange of the mast partner. A foam or coremat stringer, not exceeding 25mm x 25mm may also be placed under the glass fibre laminate at the corner formed by the flange and the mast partner's horizontal surface.
  - (i) Wedges may be fitted under the mast base tenon for the purpose of heel tune. Furthermore the aft face of the tenon shall at all time be in contact with the mast step bearing surface. Wedges shall not be removed or adjusted during an event.

#### 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.

#### 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.
- (b) Replacement of non-skid tape or paint to the deck moulding is permitted.

#### C.7.4 LIMITATIONS

- (a) Only one **hull** shall be used in an event, except when lost or unintentionally damaged beyond repair. Any replacement shall only be made with the approval of the RC.

#### C.7.5 HULL WEIGHT

- (a) The weight of the **hull** including gennaker sock, **bowsprit**, **rudder** stock (including tiller), permanently fixed fittings and control lines including blocks for gennaker pole, downhaul and kicker, foot straps and any **hull corrector weight**, but excluding **daggerboard**, **rudder** blade, tiller extensions, ratchet blocks (complete) for gennaker sheets, mainsheet, jib sheet and gennaker sheet(s), equipment listed in C.5.1, all other fittings/equipment not permanently fixed to the hull as delivered from the builder shall not be less than 74.0 kg with all items in a dry condition.

#### C.7.6 CORRECTOR WEIGHTS

- (a) **Corrector weights** shall be permanently fastened with bolts through the jib track under the mast partner when the hull 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

The following is permitted without the approval of the ICA TC. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function.

### C.8.1 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) For foils of GRP construction: Repairs to damage in the leading and trailing edge may be filled and faired in to the original shape. (Advisory note: nowhere in this rule is re-finishing, fairing of the **daggerboard** and **rudder** blade permitted except to facilitate localised repair).
- (b) For foils of aluminum construction: The **daggerboard** and **rudder** blade ends may be sanded, filled or painted in order to maintain their original shape.
- (c) The tiller forward of the **rudder** stock may be modified.
- (d) The **rudder** stock packing may be of any material.
- (e) The tiller extensions may be replaced without any restrictions as to design and material.
- (f) The use of Single or Twin tiller extensions are permitted.

### 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 RC.

## C.9 RIG

The following is permitted without the approval of the ICA TC. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function.

### C.9.1 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) Replacement of fittings may be made and if needed to facilitate repair the fitting may be modified to accommodate slightly larger fixings.
- (b) Standing **rigging** may be replaced and shall comply with the following:
  - (i) The forestay and shrouds shall be 3.0mm - 3.5mm diameter 1x7 or 1x19 stainless steel wire.
- (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 attached to the **rigging** are permitted.

## 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

## 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 lower bearing surface of the forestay pin OR an attached shackle and shall be a minimum 445mm and maximum 460mm.

## C.9.4 FITTINGS

- (a) Optional mechanical wind indicators.

## C.9.5 STANDING RIGGING

### USE

- (a) The forestay shall be fitted to the centre hole of the stem head fitting.
- (b) **Standing rigging** shall not be adjusted after the *start*.

## C.9.6 RUNNING RIGGING

The following is permitted without the approval of the ICA TC. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function.

### (a) MODIFICATIONS, MAINTENANCE AND REPAIR

- (i) Trapeze lines shall include a minimum of 3050mm of stainless steel wire.
- (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) Gennaker halyard may be lead externally. If lead externally, no additional fittings shall be used.
- (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) Shockcord 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 clewboard 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 are not changed. Handles of any configuration are optional.

- (xi) The trapeze elastic retaining system may be led directed in any way using thimbles, clip rings, balls or similar. See C.6.1(n).
- (xii) Calibration marks may be added alongside the kicker and downhaul control lines.
- (xiii) A clip or shackle may be added to the mainsail and jib halyards where they attach to the sails.
- (xiv) A clip or shackle may be added to the boom vang attachment to connect to the control line block.
- (xv) The jib sheet system may be configured up to a maximum 4;1 purchase.

#### C.9.7 USE

- (a) Running rigging shall be led through and attached to the fittings supplied for the function and may be directed using thimbles, blocks, clip rings, balls or similar. (See C.6.1(n))

### C.10 SAILS

The following is permitted without the approval of the ICA TC. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function.

#### 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 may be added to 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 RC.

#### C.10.3 MAINSAIL

##### (a) IDENTIFICATION

- (i) The national letters and the sail numbers shall be black and shall comply with the RRS G.1.2 except where specified in C.10.3 (ii).

- (ii) National letters shall be placed in front of or above the sail numbers for which both shall comply with the specifications in the RRS Appendix G1.2 for boats under 3.5 metres.
- (iii) The national letters and the sail numbers shall be wholly between the 2nd and 4th batten pockets from the head point.
- (iv) The base of the national letters and the sail numbers shall be approximately parallel to the batten pockets
- (v) The sail number shall be either:
  - (1) If either of the crew has finished in the top 25 in the preceding 29er world championship their sail number may be that place, 1st to 9th single digit, otherwise two digits.
  - (2) Otherwise, the sail number shall be that shown on the WS hull plaque of any hull still owned by them, on any boat owned by them or on any boat loaned or chartered for an event.
  - (3) Should there be multiplicity in numbers due to C.10.3(a) (v) (1), a RC may make an arrangement suitable for the duration of the event involved.
- (vi) Mainsails used by all women crews shall carry a red rhombus (length of diagonals –maximum 190mm, minimum 170mm) just below the 2nd batten from the top of the mainsail and shall be placed on both sides of the sail, superimposed, above the Country code, minimum 60mm from the leach. The Notice of Race may change this rule.

## 10.4 GENNAKER

### (a) MODIFICATIONS

The gennaker may be modified by having graphics cut in, which shall not extend within 800 mm of the **head point** or **tack** and shall not extend within 600mm of the **luff**, **leach** or **foot**. Such actions may not alter the original shape of the sail.

## Section D – Hull

### D.1 MANUFACTURERS

#### (a) Hulls shall only be manufactured by Licensed Manufacturers

### D.2 PARTS

- (a) Hull
- (b) Gennaker Sock

### D.3 IDENTIFICATION

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

### D.4 MATERIALS, CONSTRUCTION AND DIMENSIONS

Shall comply with the WS approved Builders Construction Manual

## Section E – Hull Appendages

### E.1 MANUFACTURERS

(a) **Hull appendages** shall only be manufactured by Licensed Manufacturers

### E.2 PARTS

- (a) **Daggerboard**
- (b) **Rudder** blade
- (c) **Rudder** stock

### E.3 IDENTIFICATION

The **daggerboard** and **rudder** blade shall carry an MCE 9er equipment label.

### E.4 MATERIALS, CONSTRUCTION AND DIMENSIONS

Shall comply with the WS approved Builders Construction

## 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 arm

### F.3 IDENTIFICATION

The **mast**, spreaders, and **bowsprit** shall carry an MCE 9er equipment label.

### F.4 MATERIALS, CONSTRUCTION AND DIMENSIONS

Shall comply with the WS approved Builders Construction Manual.

## Section G – Sails

### G.1 MANUFACTURER

Sails shall only be manufactured by Licensed Manufacturers

### 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 WS approved Builders Construction Manual.

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