The 49erFX Class was designed in 1995 by Julian Bethwaite and was adopted as a World Sailing International Class in 2013.

sport / nature / technology
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INTRODUCTION

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

The boat comprises of 49er hull, hull appendages, boom and bowsprit equipment with FX mast, rigging and sails Equipment. It is therefore called the 49erFX.

49er hulls, hull appendages, booms and bowsprits are manufacture controlled.

FX mast and sails are manufacture controlled.

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

49er hull, hull appendages, boom and bowsprit equipment is required to comply with the International 49er Builders Construction Manual and is subject to a World Sailing approved manufacturing control system.

FX mast, rigging and sails Equipment is required to comply with the International FX Builders Construction Manual and is subject to a World Sailing approved manufacturing control system.

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
ISAF International Sailing Federation
MNA World Sailing Member National Authority
ICA International 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 class rules authority is World Sailing, which shall cooperate with the ICA in all matters concerning these class rules.
A.3.2 Neither the World Sailing or the ICA is under any legal responsibility in respect of these class rules.

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

A.5 WORLD SAILING 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 World Sailing Regulation 10.11 applies

A.7 CLASS RULE AMENDMENTS
A.7.1 Amendments to the class rules shall be proposed by the ICA and are subject to the approval of World Sailing in accordance with the World Sailing Regulations.

A.8 CLASS RULE INTERPRETATIONS
A.8.1 Interpretation of class rules shall be made by World Sailing in consultation with the class and both 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 World Sailing 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
A.10.1 Equipment shall only be manufactured by those appointed and licensed by the relevant CRH, in consultation with World Sailing. 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/World Sailing International Class building plaque; or
   (b) In the International 49erFX Class World Championships, Continental Championship and Sailing World Cup events, an ICA issued personal sail number between 1 – 999, which shall be renewed on an annual basis.
   (c) The number shown on the ISAF/World Sailing 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 an event.
A.11.2 After the sale of the boat, the new owner shall use the sail number as in accordance with the ISAF/World Sailing hull plaque or his/her own personal number on his/her sails. In the event of conflict, Hull numbers 1 - 99 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 Wings, bowsprit, daggerboard, rudder blade, boom vang lever and mast spreaders shall carry an ICA 9er certified equipment label.
B.2.2 Mast sections and sails, shall carry an ICA FX 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 World Sailing 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 If 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 shall apply as amended below:
       RRS 42.3 is changed as follows:
       (j) A boat may be sculled if the sculling does not propel the boat in any direction.
       (c) RRS 49.1 is changed to: ‘The crew shall use no device designed to position their body outboard other than a trapeze, hiking straps and stiffeners worn under the thighs’
       (d) RRS G1.3(a) is changed so that only one Class insignia on one side of the sail is required.
       (e) RRS Appendix G1.3(d) shall not apply.

C.2 ADVERTISING
C.2.1 Advertising including competitor advertising is permitted in accordance with World Sailing Regulation 20 – Advertising Code.
C.2.2 In accordance with World Sailing Regulation 20.5.4 the area on the jib below the middle batten pocket is limited to Event Advertising. Event advertising on the jib shall be displayed only where the event organiser has agreed such advertising with the class association and the requirement is published in the notice of race.
C.2.3 For the purpose of World Sailing Advertising Code, the gennaker shall be deemed a spinnaker.

C.3 CREW
C.3.1 LIMITATIONS
   (a) The crew shall consist of two persons.
   (b) A crew member using a trapeze shall be in contact with the hull at all times except in the situation of accidental movement and or a manoeuvre.

C.3.2 MEMBERSHIP
In all international events each crew member shall be a current member of the ICA.
C.4 PERSONAL EQUIPMENT
C.4.1 MANDATORY
(a) The boat shall be equipped with personal flotation devices (PFD) for each crew member to the minimum standard ISO 12402-5 (Level 50) or USCG Type III or AUS PFD II or equivalent.
(b) The use of inflatable personal flotation devices is not permitted.

C.4.2 OPTIONAL
(a) A Heart Rate Monitor (HRM)

C.5 PORTABLE EQUIPMENT
C.5.1 MANDATORY
(a) Spare tiller extension.

C.5.2 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, and/or race tracking equipment (GPS) where permitted by the ICA, Notice of Race and/or Sailing Instructions and removable for weighing.

C.6 BOAT
C.6.1 MODIFICATIONS, MAINTENANCE AND REPAIR
The following is permitted without the approval of the ICA Technical Committee. Unless stated otherwise items mentioned in this section may be obtained from any manufacturer or supplier.

MODIFICATIONS
(a) Protective coverings made of any soft material over exposed fittings are permitted. Such coverings shall not alter the function of the fitting.
(b) 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.
(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) Manufacturer drilled control line and trapeze elastic holes in the wings may be fitted with a metal or plastic material insert to protect against chaffing or damage to wings and or lines.

MAINTENANCE
(f) Replacement of non-skid tape or paint to the deck moulding and the wings is permitted. Any replacement shall not exceed a thickness of more than 3mm.
(g) Replacement fittings shall be fitted in the same position as the original fitting, or as close as is structurally possible.
(h) 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.

(i) Any attachment of blocks may be replaced. Attachments for blocks shall be of substantially the same size and design.

(j) 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.

**REPAIR**

(k) 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 shell below the gunwale shall not be painted.

(l) 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.

(m) Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function. Before any repair is attempted the International Class Technical Committee, or if at an event the event measurer, shall be advised and approval sought to undertake the repair.

**C.7 HULL**

**C.7.1 MODIFICATIONS, MAINTENANCE AND REPAIR**

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

**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 30 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 of any material may be fitted under the wing mounted gennaker blocks, jib 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) A bail may be fitted beneath the jib blocks mounted on the gennaker launching ring and a single block added to increase jib sheet purchase.

(g) The Cunningham purchase may be increased to a maximum of 6:1.

(h) The rope purchase of the vang system may be increased to a maximum of 4:1.
(i) The use of blocks, thimbles, clips, rings, balls or similar may be added to control lines and their shock cord take ups.

MAINTENANCE

(j) 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.

(k) The watertight integrity of the hull shall be maintained.

(l) The breather hole in the centre plinth shall remain open and unrestricted.

(m) Fittings may be bedded in provided they can be removed without damage to either the hull or fitting.

REPAIR

(n) 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 attaching the compass retaining lines.

(o) 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.

(p) 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.

(q) Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function. Before any repair is attempted the International Class Technical Committee, or if at an event the event measurer, shall be advised and approval sought to undertake the repair.

C.7.2 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.7.3 HULL WEIGHT

(a) The weight of the hull including wings, gennaker sock, bowsprit, rudder stock including tiller and rudder pintle, rudder gantry, permanently fixed fittings, foot straps and any hull corrector weight but excluding daggerboard, rudder blade, tiller extensions, gennaker blocks, non-permanently fixed fittings, all control lines including shock cord and equipment listed in C.5 shall not be less than 94.0 kg with all items in a dry condition.

C.7.4 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 3.0kg.

**C.8 HULL APPENDAGES**

**C.8.1 MODIFICATIONS, MAINTENANCE AND REPAIR**

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

**MODIFICATIONS**

(a) The tiller forward of the **rudder** stock may be modified.

(b) The tiller extensions may be replaced without any restrictions as to design and material.

**MAINTENANCE**

(c) The **rudder** stock packing may be replaced with any material.

**REPAIR**

(d) 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.)

(e) Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function. Before any repair is attempted the International Class Technical Committee, or if at an event the event measurer, shall be advised and approval sought to undertake the repair.

**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 Olympic Sailing Competition, World Championships, Continental Championships, Sailing World Cup and other World Sailing grade 1 events the **daggerboard** and **rudder** blade identifiable by the embossed 49er logo shall used.

**C.9.1 MODIFICATIONS, MAINTENANCE AND REPAIR**

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

**MODIFICATIONS**

(a) The lower shroud may be fitted with a turnbuckle between the wire end and the hull fixing point.
(b) 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.
(c) Rig pins may be replaced by quick pins or any other type of pins.
(d) Tufts or ribbons in the rigging.
(e) The cap shroud and primary shroud may be fitted with a turnbuckle between the shroud plate and the hull fixing point.
(f) The mast sections maybe permanently glued together at the top spreader.
(g) The spreaders maybe permanently bonded to the middle section on the mast, but the lower section shall always be removable.

MAINTENANCE

(h) 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.

REPAIR

(i) Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function. Before any repair is attempted the International Class Technical Committee, or if at an event the event measurer, shall be advised and approval sought to undertake the repair.

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, Sailing World Cup and other World Sailing 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 455mm and maximum 465mm.

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

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

MODIFICATIONS

(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, jib and gennaker halyards may be lead externally.
(vi) 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.
(vii) Shock cord tails may be added to ropes.
(viii) 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.
(ix) 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.

MAINTENANCE

(x) Mainsail halyard and jib halyard may be replaced by lines of any material.

REPAIR

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

Before any repair is attempted the International Class Technical Committee, or if at an event the event measurer, shall be advised and approval sought to undertake the repair.

(b) USE

(1) **Running rigging** shall be led through and attached to the fittings supplied for the function.
(2) The boom vang take-off block shall be attached to a mast strop.
C.10 SAILS

C.10.1 MODIFICATIONS, MAINTENANCE AND REPAIR

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

MODIFICATIONS

(a) 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.

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

(c) Tell Tales on the sails.

(d) Chaffing patches may be added to mainsail.

MAINTENANCE

(e) Routine maintenance such as sewing, mending and patching is permitted.

REPAIR

(f) 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.

(g) Localised repairs to damaged equipment may be undertaken. Any repair shall not be used to reinforce an existing part or add a function. Before any repair is attempted the International Class Technical Committee, or if at an event the event measurer, shall be advised and approval sought to undertake the repair.

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 49erFX Class World Championship, Continental Championships and 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, below batten 3 and above 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 3 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(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 3 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 49erFX World Championship may add an 80mm diameter gold dot for each World Championship title won immediately in front the FX class insignia, between batten 1 and batten 2 from the head point.

(iv) The names of skipper and crew may be applied on either side of the mainsail, immediately below batten 5 from the head point and no closer than 100 mm to the leech.

(b) NATIONAL FLAGS

(i) All teams when racing in the International 49erFX Class World Championship, Continental Championship and 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 2nd and 3rd 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 using the same weight fabric, 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 shall not alter the original shape of the sail.

(b) LIMITATION

IOC/World Sailing 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 as embossed on the aft trailing edge of the transom.
The hull shall display the ISAF/World Sailing 49er Class Builders plaque on the transom.
The wings shall carry an ICA 9er certified equipment label.

D.4 MATERIALS, CONSTRUCTION AND DIMENSIONS
Shall comply with the World Sailing 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/or ICA 9er certified label at the head of each appendage.

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

Section F – Rig

F.1 MANUFACTURER
(a) Mast parts shall only be manufactured by a Licensed Manufacturer.
(b) Boom and Bowsprit parts shall only be manufactured by a Licensed Manufacturer.

F.2.1 MAST PARTS
(a) Mast
(b) Spreads

**F.2.1 BOOM AND GENNAKER POLE PARTS**

(a) **Boom**
(b) **Bowsprit**
(c) **Boom vang lever**

**F.3 IDENTIFICATION**

The **mast** sections shall carry an ICA FX certified equipment label. The **Bowsprit**, **Boom vang lever** and spacers shall carry an ICA 9er certified equipment label.

**F.4 MATERIALS, CONSTRUCTION AND DIMENSIONS**

Shall comply with the World Sailing approved Builders Construction Manual.

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**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 FX sail label.

**G.4 MATERIALS, CONSTRUCTION, AND DIMENSIONS**

Shall comply with the World Sailing approved Builders Construction Manual.

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