



***FORMULA EXPERIENCE***  
**CLASS RULES**  
**2009**



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**The Formula Experience (FE) Class is devoted to fostering the development of formula windsurfing racing for competitors around the world through the promotion of an inexpensive racing format.**

The FE hulls, sails, rigs and hull appendages are manufacturer controlled and shall only be manufactured by ISAF registered manufacturers.

The FE hulls, rigs, sails and hull appendages shall be included on a Class Approved list published by ISAF. The Approved List is the selection of hulls, rig, sails and hull appendages suitable to be used in FE Class events.

After FE Class hulls, hull appendages, rigs and sails have left the manufacturer, they 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 FE Class Rules proper begin on the next page.

PLEASE REMEMBER:

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

# 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
- FECA Formula Experience Class Association
- NCA National Class Association
- RRS Racing Rules of Sailing
- ERS Equipment Rules of Sailing

### A.3 AUTHORITIES AND RESPONSIBILITIES

- A.3.1 The international authority of the class is the ISAF, which shall co-operate with the FECA in all matters concerning these **class rules**.
- A.3.2 No liability or legal responsibility in respect of these Rules can be accepted by the ISAF or FECA, or its delegated representatives.

### A.4 ADMINISTRATION OF THE CLASS

- A.4.1 ISAF has delegated the administrative functions of the class to MNAs. The MNA may delegate part or all of its functions, as stated in these **class rules** to an NCA
- A.4.2 In countries where there is no MNA, or the MNA does not wish to administrate the class, its administrative functions as stated in these **class rules** shall be carried out by the IFCA which may delegate the administration to an NCA

### A.4 ISAF RULES

- A.4.1 These **class rules** shall be read in conjunction with the ERS.
- A.4.2 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.5 CLASS RULES VARIATIONS

- A.6.1 At Class Events organised under RRS 89.1(d), ISAF Regulation 26.5(f) applies. At all other events RRS 87 applies

### A.5 CLASS RULES AMENDMENTS

- A.5.1 Amendments to these **class rules** are subject to the approval of the ISAF in accordance with the ISAF Regulations.

### A.6 CLASS RULE INTERPRETATIONS

A.6.1 Interpretation of **class rules** shall be made in accordance with the ISAF Regulations.

## **A.7 LICENSED MANUFACTURERS**

A.7.1 No **board, sail, rig** and **hull appendage** shall race in FE events unless it is a series production **board, sail, rig** and **hull appendage** registered with ISAF and included on the ISAF Production List by the first of January in the year of competition.

## **A.8 SAIL NUMBERS**

A.8.1 Sail numbers shall be issued nationally (i.e. each country issues its own numbers). If the owners MNA is administering the Class, the owner shall apply to their MNA for a sail number; otherwise they shall apply to their NCA.

## **Section B – Equipment Eligibility**

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

### **B.1 HULL CERTIFICATE & MARKINGS**

B.1.1 Hull **certificates** are not issued.

B.1.2 Boards shall display the official ISAF logo with the text “ISAF Approved Series Production” and either, “Funboard”, or “Formula” as applied by the manufacturer

### **B.2 EVENT INSPECTION**

#### **B.2.1 GENERAL**

(a) For the purpose of RRS 78, **crews** are considered to be the owners.

(b) The 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, using whatever inspection methods they deem appropriate, including comparison with a standard or a sample of other equipment presented for inspection. Should this comparison reveal deviation greater than the Inspector considers being within manufacturing tolerances, this shall be reported to technical representatives of ISAF, FECA and Manufacturer for investigation and a decision on the legality of the equipment. If this investigation takes longer than the time available for inspection, the owner shall present alternative equipment for inspection.

### **B.3 EVENT LIMITATION MARKS**

B.3.1 All items of a **crew's** equipment which are subject to control, as per the schedule on the Regatta Equipment Control Form, and which require **event limitation marks**, shall be so marked.

B.3.2 Some items of equipment may receive two **event limitation marks**, one in a readily visible position and a second in a position protected from wear and tear.

## PART II – REQUIREMENTS AND LIMITATIONS

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The **crew** and the equipment 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 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) The following ERS shall not apply: A.2 Certificate; B.9 Setting, Sheeting and Changing Sails.

#### C.2 CREW

##### C.2.1 LIMITATIONS

- (a) The **crew** shall consist of one person.

##### C.2.2 MEMBERSHIP

- (a) No **crew** is permitted to race at an International Regatta unless he/she is a member of his/her NCA. If there is no NCA then the sailor must be a member of the FECA.

##### C.2.3 DIVISIONS

- (a) Age/Gender Divisions
  - i) Boy or girl under the age of 15 years old (U15) on 31<sup>st</sup> December of the year of competition
  - ii) Boy or girl under the age of 17 years old (U17) on 31<sup>st</sup> December of the year of competition

#### C.3 PERSONAL EQUIPMENT

C.3.1 **Personal equipment** does not have to be produced by a licensed manufacturer.

##### C.3.2 OPTIONAL

- (a) Harness.
- (b) In alteration to RRS 1.2 buoyancy vest or jacket is optional (which may be described as mandatory in the Sailing Instructions). If personal buoyancy is prescribed, every competitor shall wear personal flotation device that shall conform to the minimum standard of ISO 12402-5 (Level 50). Alternative or additional standards may be prescribed in the Notice of Race or Sailing Instructions.
- (c) A container for holding beverages in accordance with RRS Appendix B.2.1 (b).
- (d) An electronic or mechanical timing device.
- (e) A heart rate monitoring device.

### C.3.3 MANDATORY

- a) Clothing and equipment, including harness but excluding beverage container, worn or carried by the **crew** shall not weigh more than 8/9 when weighed in accordance with RRS Appendix H.

## C.4 PORTABLE EQUIPMENT

C.4.1 Portable equipment does not have to be produced by a licensed manufacturer.

### C.4.2 OPTIONAL

A towrope of minimum length 5m and a recommended thickness of 5 mm may be carried by the **crew**. The use of the towrope may be specified as compulsory in an event's Notice of Race or Sailing Instructions.

## C.5 ADVERTISING

### C.5.1 LIMITATIONS

Advertising shall only be displayed in accordance with ISAF Regulation 20-Advertising Code.

## C.6 HULL

### C.6.1 LIMITATIONS

- (a) Only one **hull** shall be used during an event, except when lost or damaged beyond repair. A replacement may be made only with the approval of the Race Committee. The Race Committee shall then attach an **event limitation mark** to the replacement **hull** and remove or deface any **event limitation mark** attached to the replaced **hull**.
- (b) A maximum of five and a minimum of four foot straps shall be fitted to the existing inserts using any stainless steel screws and washers. Foot straps shall be fitted with at least one screw and washer at each end. The foot straps may be changed or replaced during an event.

### C.6.2 HULL WEIGHT

- (a) The bare **hull** weight including the air ventilation screw shall not be less than 10.0 kgs .
- (b) The **hull** may be weighed wet after a minimum of 10 minutes draining standing vertically on its aft edge.

### C.6.3 MAINTENANCE AND MODIFICATIONS

- (a) The **hull** shall not be altered in any way except as permitted by these **class rules**.
- (b) Repairs may be carried out provided such repairs are made in such a way that the essential shape, characteristics or function of the original are not affected. The serial number shall remain legible
- (c) The underside of the **hull** may be rubbed down and polished.
- (d) The deck grip may be restored to its original condition with a clear coating provided that the original deck graphics can be clearly seen

## C.7 HULL APPENDAGES

### C.7.1 LIMITATIONS

A maximum of two **fin**s from the FECA approved list shall be registered and used during an event, except when a fin has been lost or damaged beyond repair. A replacement may be made only with the approval of the Race Committee. The Race Committee shall then attach an **event limitation mark** to the replacement hull appendage and remove or deface any **event limitation mark** attached to the replaced hull appendage.

- (a) The distance between any point of a **fin** to its closest point to the **hull** shall not exceed 700 mm.

### C.7.2 MAINTENANCE AND MODIFICATIONS

- (a) The **hull appendages** shall not be altered in any way except as permitted by these class rules.
- (b) Repairs 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.
- (c) The sides of the fin root may be sanded or shimmed to fit the **fin** box. The gap between the fin root and the hull may be filled and faired.
- (d) The **fin** may be lightly sanded and/or polishing providing that the essential shape and characteristics of the **fin** are not affected.

## C.8 RIG

### C.8.1 LIMITATIONS

- (a) A maximum of two **masts** and two **booms** from the FECA approved list shall be registered and used during an event, except when an item has been lost or damaged beyond repair. Such item may only be replaced with the same type of item and with the approval of the Race Committee. The Race Committee shall then attach an **event limitation mark** to the replacement item and remove and deface any **event limitation mark** attached to the replaced item

### C.8.2 MAINTENANCE AND MODIFICATIONS

- (a) The **rigs** shall not be altered in any way except as permitted by these **class rules**.
- (b) Repairs may be carried out provided such repairs are made in such a way that the essential shape, characteristics or function of the original are not affected.
- (c) The **mast spar** may be lengthened using only an aluminium base extension, or a carbon and/or fibre glass tip extension.
- (d) The **mast spar** extension may be shimmed..
- (e) The **mast** spigot may be shimmed.
- (f) Any uphaul may be fitted.
- (g) A safety line or device to secure the **rig** to the **hull** may be fitted.
- (h) The downhaul adjustment system is optional.
- (i) The outhaul adjustment system is optional.



- (j) The surface of the **boom spar** grip may be roughened using abrasive material.
- (k) Cleats, pulleys and ropes may be replaced by any of the same characteristics and function
- (l) Any harness lines may be used.

## C.9 SAILS

### C.9.1 LIMITATIONS

- (a) A maximum of two **sails** from the FECA approved list, each of a different size, shall be registered and used in an event, except when a **sail** has been lost or damaged beyond repair. A replacement may be made only with a **sail** of the same size and with the approval of the Race Committee. The Race Committee shall then attach an **event limitation mark** to the replacement **sail** and remove or deface any **event limitation mark** attached to the replaced **sail**.
- (b) The size of a sail shall not exceed 11.0 sq.m. If a sail needs to be measured, the ISAF Guide To Sail Area Calculation And Measurement shall be used: <http://www.sailing.org/9559.php>
- (c) The maximum **sail** size for the U17 division shall be 8.5 sq.m.
- (d) Only one set of battens per **sail** shall be used during an event.

### C.9.2 SAIL IDENTIFICATION

#### (a) National Letters and Numbers

The national letters and sail number shall be black in colour and applied “back to back” on an opaque white background to the **sail** otherwise positioned according to RRS Appendix B2.4(b) and as close to the **leech** as possible. The opaque background shall extend a minimum of 30 mm beyond the national letters and sail number. In all other respects they shall comply with RRS Appendix G 1.2 for craft less than 3.5 m in length.

#### (b) Division Identification

At events where the organising authority specifies the use of identification of division, the identification shall be displayed on the sail above the class insignia. The minimum height shall be 230 mm. The divisions and displays shall be :

Women – Red Diamond

Boy (U20) – Black Triangle (pointing down)

Girl (U20) - Red Triangle (pointing up)

### C.9.3 MAINTENANCE AND MODIFICATIONS

- (a) **Sails** and fittings shall not be altered in any way except as permitted by these **class rules**.
- (b) Repairs may be carried out provided such repairs are made in such a way that the essential shape, characteristics or function of the original are not affected.
- (c) Transparent self-adhesive mono-film patches may be attached to the **sail** adjacent to the **boom spar**.

- (d) A lubricant may be used on the camber inducers.
- (e) Battens may be replaced by others of the same type and function.
- (f) Camber inducers may be replaced by others of the same type and function.

## **Section D – Hull**

### **D.1 MANUFACTURERS**

- (a) The **hull** and fittings, except foot straps, shall be produced by a licensed manufacturer.

### **D.2 IDENTIFICATION**

- (a) The **hull** shall carry the unique serial number issued by the licenced manufacturer in a legible condition.

### **D.3 MATERAILS, CONSTRUCTION and DIMENSIONS**

- (a) The **hull** shall comply with the licensed manufacturer building specifications.
- (b) The **hull** shall have a maximum beam of 1005 mm.

### **D.4 FITTINGS**

- (a) Mast track
- (b) fin box
- (c) foot strap fixing inserts
- (d) foot straps
- (e) Towing eye

## **Section E – Hull Appendages**

### **E.1 MANUFACTURERS**

- (a) **Fins** shall be produced only by licensed manufacturers listed in the FECA approved list.

### **E.2 IDENTIFICATION**

- (b) **Fins** shall carry a unique ID number.

### **E.3 MATERIALS, CONSTRUCTION AND DIMENSIONS**

- (a) A **fin** shall comply with the licensed manufacturer building specification.

## **Section F – Rig**

### **F.1 MANUFACTURERS**

- (a) **Masts** shall be produced only by licensed manufacturers listed on the FECA approved list.

### **F.2 MAST**

- (a) The carbon content of the **mast** shall not exceed 75%.
- (b) The top and bottom sections of the **mast** shall be clearly labelled including dimensions and carbon content
- (c) The mast tip extension shall not exceed 300mm in length.

### F.3 BOOM

#### (a) MATERIALS

The **boom** shall be made of aluminium alloy.

#### (b) DIMENSIONS

Internal length of the <b>wishbone boom</b> excluding attachments	8.5 sqm <b>sails</b>	11.0 sqm <b>sails</b>
	Max	Max
	2400mm	3010mm

## Section G – Sails

### G.1 PARTS

(a)- 8.5.sq.m. **sail**, or less, from the Approved List.

(b)- 11.0 sq.m. **sail**, or less from the Approved List.

### G.2 MANUFACTURERS

**Sails** and fittings shall be manufactured by an approved manufacturer.

### G.3 IDENTIFICATION

Class insignia may be applied only by the manufacturer.

### G.4 MATERIALS, CONSTRUCTION and DIMENSIONS

(a) Shall comply with the manufacturers building specifications.

(b) **Sails** shall have a maximum of 7 full width battens and maximum of 3 camber inducers.

(c) A **gaff** is counted as a full width batten.

### G.5 FITTINGS

(a) Battens

(b) Camber Inducers

Effective:

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