



***FORMULA EXPERIENCE***  
**CLASS RULES**  
**2010**



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## INTRODUCTION

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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 Class hulls, sails, rigs and fins are manufacturer controlled and shall only be manufactured by FECA registered manufacturers.*

*The FE Class hulls, rigs, sails and fins shall be included on the Class Approved list published by ISAF which contains the selection of hulls, rig, sails and fins suitable to be used in FE Class events.*

*After FE Class hulls, sails, rigs, and fins have left the manufacturer, they may only be altered to the extent permitted in Section C of these 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 **class rules** can be accepted by the ISAF, FECA, or its delegated representatives.

#### A.4 ADMINISTRATION OF THE CLASS

- A.4.1 ISAF has delegated the administrative functions of the class to FECA

#### 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 These **Class Rules** shall not be amended suspended or override in the Notice of Race or Sailing Instructions without approval of ISAF

#### A.7 CLASS RULES CHANGES

- A.7.1 Changes to these **class rules** are subject to the approval of the ISAF in accordance with the ISAF Regulations.

## **A.8 CLASS RULE INTERPRETATIONS**

- A.8.1 Interpretation of **Class Rules** shall be made in accordance with the ISAF Regulations.

## **A.9 PRODUCTION LIST**

- A.9.1 FECA shall publish a list of **hulls, sails, masts, booms** and **fins** to be used on FE events.

## **A.10 SAIL NUMBERS**

- A.10.1 Sail numbers shall be issued nationally (i.e. each country issues its own numbers). If the owner's 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 a **windsurfer** to be eligible for *racing*, it shall comply with the rules in this section.

## **B.1 EVENT INSPECTION**

### **B.1.1 GENERAL**

The role of **Equipment Inspectors** at an event is to ensure compliance with these **class rules**. Where an **equipment inspector** determines that an item of equipment needs further investigation they shall use 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.2 EVENT LIMITATION MARKS**

- B.2.1 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.
- B.2.2 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.
- B.2.3 If a **windsurfer** item has to be replaced, the Race Committee shall attach an **event limitation mark** to the replacing item and remove or deface any **event limitation mark** attached to the replaced item.

# PART II – REQUIREMENTS AND LIMITATIONS

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The **crew** and the **windsurfer** 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

The following ERS shall not apply: B.9 setting, sheeting and changing **Sails**.

#### C.1.2 LIMITATION

During a race only one **hull**, one **fin**, one **rig**, and one **sail** shall be used

### C.2 CREW

#### C.2.1 LIMITATIONS

The **crew** shall consist of one person.

#### C.2.2 MEMBERSHIP

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

#### C.2.3 DIVISIONS

At events where the organising authority specifies the use of age/gender divisions the following divisions shall apply:

- a) Boy or girl under the age of 15 years old (U15) on 31<sup>st</sup> December of the year of competition.
- b) Boy or girl under the age of 17 years old (U17) on 31<sup>st</sup> December of the year of competition.
- c) Men/Women of 17 years or older (Open) on 31<sup>st</sup> December of the year of the competition.

### C.3 PERSONAL EQUIPMENT

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

#### C.3.2 OPTIONAL

In addition to food and personal effects to keep warm and/or dry, and/or to protect the body, the following may be carried on board:

- (a) A harness.
- (b) A buoyancy vest or jacket (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

Clothing and equipment, including harness but excluding beverage container, worn or carried by the **crew** shall not weigh more than 9 Kg 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 the 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) During an event, not more than one **hull** shall be used except when lost or accidentally damaged beyond repair. A replacement may be made, only with the approval of the Race Committee.
- (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.

### C.6.2 HULL WEIGHT

- (a) The **hull weight** including the air ventilation screw but excluding the deck plate, footstraps and **fin** shall not be less than 10.0 kgs .
- (b) **Correctors weights** installed by the manufacturer shall not be altered.

- (c) The **hull** may be weighed wet after a minimum of 10 minutes draining standing vertically on its aft edge.

#### C.6.3 MAINTENANCE, MODIFICATIONS and REPAIR

- (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 identified.
- (e) Foot straps may be changed or replaced during an event.

### C.7 HULL APPENDAGES

#### C.7.1 LIMITATIONS

- (a) During an event a maximum of two **fins** shall be used , except when a **fin** has been lost or accidentally damaged beyond repair. A replacement may be made only with the same type of **fin** and with the approval of the Race Committee.
- (b) The distance between any point of a **fin** to its closest point to the **hull** shall not exceed 700 mm.

#### C.7.2 MAINTENANCE, MODIFICATIONS and REPAIRS

- (a) **Fins** shall not be altered in any way except as permitted by these class rules.
- (b) Repairs may be carried out provided they 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) During an event a maximum of two **masts** and two **booms** shall be used during an event, except when an item has been lost or accidentally damaged beyond repair. A replacement may be made only with the same type of item and with the approval of the Race Committee.



- (b) With the **mast** attached to the **hull** it shall be possible to incline the **mast** at least 90 degrees from the vertical axis of the **hull** in every direction.
- (c) The **mast** shall have a quick release system in order to be detached from the **hull**.

## C.8.2 MAINTENANCE AND MODIFICATIONS

- (a) The **rig** 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) Any safety line or device to secure the **rig** to the **hull** may be fitted.
- (h) Any downhaul adjustment system may be fitted.
- (i) Any outhaul adjustment system may be fitted.
- (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.
- (m) Cleats and pulleys attached to the **rig** may be removed or replaced in its original position only using items of the same characteristic and function. Rivets may be replaced by rivets, screws or bolts with optional nuts.

## C.9 SAILS

### C.9.1 LIMITATIONS

- (a) During an event a maximum of two **sails**, each of a different size, shall be used except when a **sail** has been lost or accidentally damaged beyond repair. A replacement shall be made only with a **sail** of the same type and size and with the approval of the Race Committee.
- (b) For the open division any sail in the FECA list may be used. For the U17 division sails with 8.5 m<sup>2</sup> or less and for the U15 division sails with 7.8 m<sup>2</sup> or less from the FECA list may be used.

- (c) Only one set of battens per **sail** shall be used during an event.
- (d) When a sail area has to be measured the ISAF Guide To Sail Area Calculation And Measurement shall be used: <http://www.sailing.org/9559.php> in which case a tolerance of 3.2% of the total sail area measured is permitted

#### C.9.2 SAIL IDENTIFICATION

##### (a) National Letters and Numbers

The national letters and sail number shall be black in colour and applied as “back to back” as possible 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 (Open) – Red Diamond

Boy (U17) – Black Triangle (pointing down)

Girl (U17) - Red Triangle (pointing up)

#### C.9.3 MAINTENANCE MODIFICATIONS and REPAIRS

- (a) 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.
- (b) Any transparent self-adhesive mono-film patches may be attached to the **sail** adjacent to the **boom spar**.
- (c) Any lubricant may be used on the camber inducers.
- (d) Battens and camber inducers may be replaced by fittings of the same type and function.

## Section D – Hull

### D.1 MANUFACTURERS

The **hull** except foot straps shall be produced by licensed manufacturers listed in the FECA approved list.

### D.2 IDENTIFICATION

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

- (b) **Hulls** shall display the official ISAF logo as applied by the manufacturer

### D.3 MATERIALS, CONSTRUCTION AND DIMENSIONS

The **hull** shall comply with the registered manufacturer building specifications.

## Section E – Hull Appendages

### E.1 MANUFACTURERS

**Fins** shall be produced only by registered manufacturers listed in the FECA approved list.

### E.2 IDENTIFICATION

**Fins** may carry a unique ID number applied by the manufacturer.

## Section F – Rig

### F.1 MANUFACTURERS

- (a) **Masts** and **booms** shall be produced only by registered manufacturers listed in the FECA approved list.

### F.2 MAST

- (a) The mast tip extension excluding the ferrule shall not be longer than 300mm  
(b) Dimensions

Mast Length	7.8 sqm <b>sails</b>	8.5 sqm <b>sails</b>	11.0 sqm <b>sails</b>
	Max	Max	Max
	5000	5200	5800

### F.3 BOOM

- (a) Dimensions

Internal length of the <b>wishbone boom</b> excluding attachments	7.8 sqm <b>sails</b>	8.5 sqm <b>sails</b>	11.0 sqm <b>sails</b>
	Max	Max	Max
	2230mm	2400mm	2800mm

## Section G – Sails

### G.1 MANUFACTURERS

**Sails** and its fittings shall be produced only by registered manufacturers listed in the FECA approved list

## **G.2 PARTS**

- (a) 7.8 sqm. **Sail**, or less from the FECA Approved List
- (b) 8.5.sq.m. **sail**, or less from the FECA Approved List.
- (c) 11.0 sq.m. **sail**, or less from the FECA Approved List.

## **G.3 IDENTIFICATION**

Class insignia may be applied by the manufacturer.

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

- (a) **Sails** shall have a maximum of 7 full width battens and maximum of 3 camber inducers.
- (b) A **gaff** is counted as a full width batten.

## **G.5 FITTINGS**

- (a) Battens
- (b) Camber Inducers

Effective:

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