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# Class Rules

## International Kiteboarding Association - Formula Kite



The IKA Formula Kite Class was adopted as a World Sailing international class in 2013

sport / nature / technology



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## IKA FORMULA KITE COURSE RACING COMPETITIONS

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# INTRODUCTION

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The IKA Formula Kite Class rules are meant to regulate the equipment used in kiteboarding course racing (“Formula Kite”) events.

The aim of the rules is to enable competitors of different weight and size to compete on affordable and universal sailing crafts that are regarded as “Formula Kite” to participate on an equal playing field. Development of equipment within the limitation of these class rules is encouraged.

Foil systems and Kites shall only be manufactured by Licensed Manufacturers and shall be series production manufacture controlled with every item of the series built to the highest possible degree of uniformity in every performance related aspect.

Equipment as above shall, after having left the manufacturer, only be altered to the extend permitted in Section C of these 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.*

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

**PLEASE REMEMBER:**

**CLASS RULES IN THIS CHAPTER ARE CLOSED CLASS RULES WHERE IF IT IS NOT SPECIFICALLY STATED 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 translation the English text shall prevail.
- A.1.2 The word “shall” is mandatory and the word “may” is permissive.
- A.1.3 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.2 ABBREVIATIONS

- A.2.1 WS World Sailing
- MNA WS Member National Authority
- WSCA World Sailing Class Association
- FK IKA Formula Kite Class
- IKA International Kiteboarding 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 World Sailing which shall co-operate with the IKA in all matters concerning these **class rules**.
- A.3.2 The World Sailing or IKA, or its delegated representatives can accept no liability or legal responsibility in respect of these rules.

### A.4 ADMINISTRATION OF THE CLASS

- A.4.1 The class is administered by the International Kiteboarding Association.

### A.5 WORLD SAILING RULES

- A.5.1 These **class rules** shall be read in conjunction with the ERS.

### A.6 CLASS RULES VARIATIONS

- A.6.1 At class events – see RRS 89.1.d) – World Sailing Regulation 10.5(f) applies.  
At all other events RRS 87 applies.

### A.7 CLASS RULES AMENDMENTS

- A.7.1 Amendments to these **class rules** are subject to the approval of World Sailing in accordance with the World Sailing Regulations

### A.8 CLASS RULES INTERPRETATIONS

- A.8.1 Interpretation of **class rules** shall be made in accordance with the World Sailing Regulations

## Section B – BOAT ELIGIBILITY

For an IKA FK kite-board to be eligible for *racing* it shall comply with the rules in this section

### B.1 LICENSED MANUFACTURERS

#### B 1.1 Terminology

- (a) Foil System: Hull appendage primarily used to produce vertical lift and/or affect leeway, as described in C.8, may include a Mast, Front Wing, Fuselage and Stabilizer
- (b) Series Production Equipment: Equipment of one manufacturer which is mass produced in a production run of at least 100 pieces per model/size and continuously made available for purchase worldwide without restriction until the end of the current Olympic Cycle with monthly production capacities of not less than 50 pieces. Each piece of equipment shall be produced using the same manufacturing specification and materials, be identical within production tolerances in all performance related aspects, and comply with the measurements provided by the manufacturer.

B 1.2 Registration and Licensing follows the procedures described in the 'IKA Builder Agreement and Registrations Scheme available online at [www.internationalkiteboarding.org](http://www.internationalkiteboarding.org)

#### B.1.3 Timelines affecting Equipment Eligibility

##### a) Application period

- Period closing date<sup>\*\*</sup>: 1st May 2020\*
- The timeline may be extended in Force Majour circumstances.

##### b) Evaluation period

- Period starting date: Day after the scheduled date of the 2020 Olympic Competition (10 August 2020)\*
- Period closing date: 'Equipment selection date' in December 2021\*

##### c) Licensed period:

- Starting date: 'Equipment selection date' in December 2021\*
- Closing date: Day after the 2024 Olympic Sailing Competition\*

\* these timeframes will be updated accordingly to adapt to every Olympic cycle.

\*\* For the avoidance of a doubt, an equipment registration application is only complete when complying with the requirements of the application process, including but not limited to world wide availability.

#### B.1.4 Equipment Eligibility

- a) Only registered series production foil systems and kites listed on the relevant registered series production list as eligible to race, with an eligibility date defined as per the provisions of rules B.1.4.(b)-(e), are eligible for *racing*. The registered series production list is available at the class website, [www.formulakite.com](http://www.formulakite.com).
- b) Any equipment registration completed after the “Application period” closing date defined in Rule 1.3(a), shall only be eligible for *racing* after the licensed period closing date as defined in Rule B.1.3(c).
- c) Prior to the “Evaluation period” defined in Rule B.1.3(b), only equipment listed with an eligibility date prior to the “Evaluation period starting date” defined in Rule B.1.3(b), shall be eligible for racing.
- d) Until the end of the “Evaluation period” defined in Rule B.1.3 (b), only equipment registered prior to the “Application closing date” defined in Rule B.1.3(a), shall be eligible for racing.
- e) During the “Licensed period” defined in Rule B.1.3 (c), only equipment models selected and licensed by the closing date defined in Rule B.1.3 (b) as per the class equipment licensing policy document, shall be eligible for racing.
- f) Separate equipment control procedures and agreements may apply as agreed between World Sailing, the manufacturer and the class.

#### **B.2 KITE IDENTIFICATION**

- B.2.1 Registered Series Production Kites shall display the official IKA Registered Production Equipment Plaque with Make, Model, Size and the manufacturers serial number on the bottom side of the kite, on the middle panel near the leading or trailing edge as applied by the manufacturer.

#### **B.3 HULL APPENDAGE IDENTIFICATION**

- B.3.1 Registered Series Production foil systems registered after December 31<sup>st</sup> 2019 shall display the official IKA Registered Production Equipment Plaque on the starboard side of the mast, and a unique manufacturers serial number on mast, fuselage, front wing and stabilizer (rear wing). The manufacturers serial number shall be in a place visible without dismantling the foil system. Brand and Model/Size shall be coded into the manufacturers serial number. The manufacturers serial number may be covered by clear coating applied by the manufacturer.

#### **B.4 EVENT INSPECTION**

(a) For the purpose of RRS 78, **crew** is considered to be the owner.

(b) 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 World Sailing, IKA 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.5 EVENT LIMITATION MARKS**

B.5.1 All items of a **crew's** equipment which are subject to control, as per the schedule on the Regatta Equipment Registration Form, and which require **event limitation marks** shall be so marked.

B.5.2 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, equipment** and the **kite-board** 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** as defined in the ERS. 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 LIMITATIONS

- (a) Not more than any one hull, one registered series production foil system and a maximum of four registered series production kites shall be registered for an event. When a hull, foil system or kite has been lost or accidentally damaged beyond repair, a replacement may be made, only with the approval of the Technical Committee. The Technical Committee shall then attach an **event limitation mark** to the replacing item.
- (b) Not more than one mast, one frontwing, one rearwing/stabilizer and one fuselage shall be used in a foil system.
- (c) Not more than one production kite shall be registered per size range:  
Large: Nominal Size of 15m or bigger  
Medium: Nominal Size of 11m to 15m  
Small: Nominal Size 11m or smaller  
X-Small: Nominal Size 9m and smaller
- (d) From 1st September 2017, only kites displaying a registered equipment plaque shall be used at World and Continental Championships.
- (e) Registered series production equipment used for racing shall comply with the measurements published on the registered series production equipment lists.

### 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 a National or International Regatta unless he/she is a member of his/her NCA. If there is no NCA, then the **crew** shall be a member of the IKA.

#### C.2.3 AGE DIVISIONS

- (a) OPEN – Men and Women of any age



- (b) YOUTH (U19) - Boys and Girls under the age of 19 years on 31 December of the year of the event.
- (c) MASTERS (35+) – Men and Women above the age of 34 years on 1 January of the year of the event.
- (d) GRAND MASTERS (45+) – Men and Women above the age of 44 years on 1 January of the year of the event.

### C.3 PERSONAL EQUIPMENT

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

#### C.3.2 SAFETY AND LIFE-SAVING EQUIPMENT

- (a) A detachable kite leash with a leash safety release, capable of fully flagging out the kite, shall be used and worn as intended. The Notice of Race and the Sailing instructions may change this rule.
- (b) In accordance with RRS 1.2 the following provision is made: The **crew** does not have to wear or carry on board a **Personal Flotation Device** unless RRS 40 applies or the Notice of Race or Sailing Instructions specifies it. The **Personal Flotation Device** shall conform to the minimum standard of ISO 12402-5 and if prescribed, the **crew** shall wear it. Alternative or additional standards may be prescribed in the Notice of Race.
- (c) 1. A helmet to the minimum standard EN1385 or EN1077 or equivalent with at least 300 square centimeters of the exterior surface in a high visibility colour (except green and blue colours) shall be worn at all times when afloat, except briefly while changing or adjusting clothing or personal equipment. If prescribed by the Notice of Race, the helmet shall carry nationality flags as instructed by the Notice of Race.
  - 2.
    - a. When racing in an IKA Formula Kite World Championship, Continental Championship, World Sailing Event or Regional Games, the national flag of the crew shall be displayed on both sides of the helmet. Displaying the national flag is optional at all other events.
    - b. Flags shall be 80x60mm in dimension, designed as specified by the IKA, or ordered and purchased through IKA approved providers, and shall not be trimmed, cut, or covered by other materials.



- (d) A hook knife shall be securely attached to the competitor at all times when afloat.
- (e) Body protection (Impact vest) which may also act as a personal flotation device in accordance with CR C.3.2(b).

### C.3.3 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) Any harness.
- (b) Any buoyancy vest or jacket (which may be described as mandatory in the Sailing Instructions). If personal buoyancy is prescribed, every competitor shall wear a personal flotation device that shall conform to the minimum standard of ISO 12402-5 (Level 50).
- (c) Any container for holding beverages in accordance with RRS Appendix F 43.1(a)
- (d) Any electronic or mechanical timing device
- (e) Any heart rate monitoring device
- (f) Any electronic or mechanical compass
- (g) A whistle, compliant with ISO 12402-8 or equivalent, securely attached to the competitor.

## C.4 PORTABLE EQUIPMENT

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

### C.4.2 OPTIONAL

- (a) any GPS tracking device. The Notice of Race or Sailing Instructions may change this rule.
- (b) Any camera recording equipment and attachments, removable for weighting. The Notice of Race or Sailing Instructions may change this rule.

## C.5 IDENTIFICATION

Competitors shall comply with RRS F9

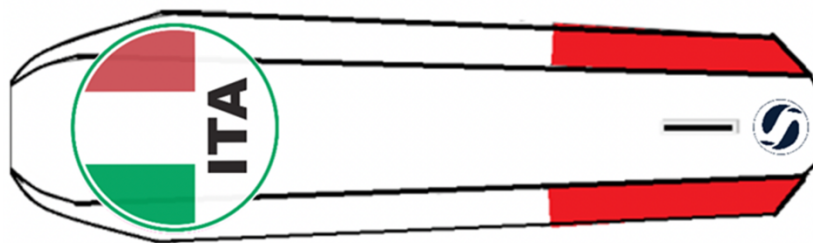
## C.6 ADVERTISING

### C.6.1 LIMITATIONS

Advertising shall only be displayed in accordance with the World Sailing Advertising Code.

### C.6.2 Placement of Advertising and Class Insignia

The areas on each sides of the rear 30% of the bottom of the hull, are reserved for event advertising within an area of 50x10cm. The class insignia shall be placed on the front middle of the bottom of the hull, within an area of 10x10cm, and shall not be trimmed, cut, or covered by other materials.



Red: Event Advertising

## **C.7 HULL**

### **C.7.1 MODIFICATIONS/MAINTENANCE AND REPAIR**

- a) Any one hull may be used
- b) Any modification/maintenance and repair is permitted

### **C.7.2 MAKERS MARKS**

Not in use.

### **C.7.3 WSCA REGISTRATION**

Hulls used in Continental and World Championships, Regional and Olympic Games and their qualification events, shall display a WSCA registration sticker with an unique registration number, applied as instructed.

### **C.7.4 NATIONAL FLAG**

- (a) When racing in an IKA Formula Kite World Championship, Continental Championship, World Sailing Event or Regional Games, the national flag of the crew shall be displayed on the bottom of the hull, centered at the widest part of the hull in the forward third part. Displaying the national flag is optional at all other events. See image class rule C.6.2
- (b) Flags shall be 350mm in diameter, designed as specified by the IKA, or ordered and purchased through IKA approved providers, and shall not be trimmed, cut, or covered by other materials. See image class rule C.6.2.

## **C.8 HULL APPENDAGES**

### **C.8.1 GENERAL**

- (a) Only one foil system is permitted to be attached to the hull.
- (b) Any adapter between the hull and mast of the foil system may be used. The shortest distance between the lowermost point of the adapter and the bottom of the hull shall not exceed 125mm.

### **C.8.2 DIMENSIONS**

There shall be a minimum of 500mm between the lowest point of the foil system to its closest point to the **hull** shell.

### C.8.3 MODIFICATIONS MAINTENANCE AND REPAIR

- (a) the foil system shall not be altered in any way except as permitted by these class rules.
- (b) Routine maintenance and 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) Any existing screw holes may be filled and faired. The filling or fairing material may not extend beyond the screw hole and into the surface of the foil system.
- (d) Any gaps between the different components of the foil system (mast, fuselage, front wing, stabilizer) may be filled and faired, including the junction slot between the mast and the wings.
- (e) Pinholes in any part of the foil system may be filled and faired.

### C.8.4 WSCA REGISTRATION

Foil System Masts used in Continental and World Championships, Regional and Olympic Games and their qualification events, shall display a WSCA registration sticker with an unique registration number, applied as instructed.

## C.9 RIGGING

### C.9.1 BARS

- (a) Any handle bar may be used.
- (b) Handle bars shall have a quick release system that allow to disconnect the handle bar from the harness with a single hand movement.

### C.9.2 LINES

- (a) Any lines may be used.
- (b) Front lines shall have a depowering *device*.

### C.9.3 BRIDLES

- (a) Any bridles may be used.

#### C.9.4 DIMENSIONS

The maximum distance measured from the lowermost point of the rigging to any part of the kite, when rigged, shall be 45000 mm.

|             | Maximum Diameter | Minimum Diameter |
|-------------|------------------|------------------|
| Front Lines | -                | 1.2mm            |
| Back Lines  | -                | 0.8mm            |

#### C.9.5 MATERIALS

- (a) Flying lines shall be made of dynema or spectra or generic materials
- (b) Bridles if used shall be made of Carbon, Kevlar, Poly-aramid, dynema or spectra or generic materials.

### C.10 KITE

#### C.10.1 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) The kite shall not be altered in any way except as permitted by these **class rules**.
- (b) Routine maintenance and 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. Serial numbers/plaque ID's shall remain legible.

#### C.10.2 IDENTIFICATION

If prescribed by the Notice of Race each **kite** shall carry nationality flags as instructed by the Notice of Race.

#### C.10.3 SAILMAKERS MARKS

Personal advertising as prescribed in the World Sailing Advertising Code may be applied provided that model and size identification as publicly available in retail remains identifiable.

#### C.10.4 WSCA REGISTRATION

Kites used in Continental and World Championships, Regional and Olympic Games and their qualification events, shall display a WSCA registration sticker with an unique registration number, applied as instructed.

### C11 EQUIPMENT READY TO SAIL

#### C11.1 LIMITATIONS

The total weight of the hull, the foil system and footstraps used during racing shall not be less than 5.5 kg. The equipment shall be weighted in accordance with the following procedure:

- (a) The hull shall be put into water and left unaided to float for 30 seconds. The hull shall then be turned over and left to float unaided for a further 30 seconds.
- (b) Once complete, the hull shall be stood vertically on its aft end and immediately weighed after 10 minutes.

## Section D – Hull

### D.1 GENERAL

#### D.1.1 DIMENSIONS

|                    | Min | Max    |
|--------------------|-----|--------|
| <b>Hull Length</b> | -   | 1550mm |
| <b>Hull Beam</b>   | -   | 500mm  |

#### D.1.2 WEIGHT

|   | Min   | Max |
|---|-------|-----|
| <b>Hull weight</b> (excluded fins and footstraps) | 2000g | -   |

#### D.1.3 MATERIALS

Any materials may be used

## Section E – Hull Appendages

Not in Use

## Section F – Rigging

Not in Use

## Section G – Kite

### G.1 GENERAL

#### G.1.1 MATERIALS

- a) The outside shell of the front tube (if any), the canopy, and the outside shell of the struts (if any) shall be made out of woven ply
- b) Reinforcements, battens, tapes may be made out of other material.
- c) Bladders shall be made out of TPU, PU or PVC materials

#### G.1.2 SIZE

The nominal size of a kite registered after 01.01.2013 shall be within +/- 0.5 sqm of the actual measured size of the kite (laid out area)

#### G.1.3 SIZE DECLARATION

For Kites registered after 01.01.2013 the nominal kite size shall be printed by the manufacturer on the outside (top side) of the canopy in a contrasting colour and clearly legible. Commercially available typefaces giving the same or better legibility than Helvetica are acceptable. The height of the characters shall be at least 150mm

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