

Effective date: 2024-03-01

Status: Approved



# Class Rules

## International Formula Wing Class Association



# INDEX

---

## PART I – ADMINISTRATION

### **Section A – General**

- A.1 Language
- A.2 Abbreviations
- A.3 Authorities & Responsibilities
- A.4 Administration of the Class
- A.5 World Sailing Rules
- A.6 Class Rules Variations
- A.7 Class Rules Amendments
- A.8 Class Rules Interpretations

### **Section B – Boat Eligibility**

- B.1 Licensed Manufacturers
- B.2 Hull Identification
- B.3 Wing Identification
- B.4 Hull Appendage Identification
- B.5 Event Inspection
- B.6 Event Limitation Marks

## PART II – REQUIREMENTS AND LIMITATIONS

### **Section C – Conditions for Racing**

- C.1 General
- C.2 Crew
- C.3 Personal Equipment
- C.3 Portable Equipment
- C.5 Identification

- C.6 Advertising
- C.7 Hull
- C.8 Hull Appendages
- C.9 Rigging
- C.10 Wing

### **Section D– Hull**

### **Section E – Hull Appendages**

### **Section F – Rig**

### **Section G – Wing**

- G.1 General

# INTRODUCTION

---

The International Formula Wing Foil Class rules are meant to regulate the equipment used in Formula Wing Foil Class 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 Wing” to participate on an equal playing field. Development of equipment within the limitation of these class rules is encouraged.

Although written in closed class rules format, these class rules have currently only very few limitations to encourage development of equipment in this new discipline of sailing.

Further equipment limitations may be introduced once the development has slowed down. The class envisions that a registered series production scheme will be introduced, with annual equipment registration by the manufacturers.

*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 WingFoil Open Racing Class Rules proper begin on the next page.*

**PLEASE REMEMBER:**

**THESE CLASS RULES 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

---

## 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
- FWF International Formula Wing Foil Class
- 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 World Sailing which shall co-operate with the FWF in all matters concerning these **class rules**.
- A.3.2 The WS or FWF, 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 Wing Sports Association (IWSA), an administrative body established in Switzerland.

### 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 RRS 87 applies.

### A.7 CLASS RULES AMENDMENTS

- A.7.1 Amendments to these **class rules** are subject to the approval of the IWSA AGM in accordance with the IWSA Constitution.

### A.8 CLASS RULES INTERPRETATIONS

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

## Section B – BOAT ELIGIBILITY

For an International Formula Wing Foil (FWF) wingfoil-board to be eligible for *racing* it shall comply with the rules in this section

### B.1 CLASS RULES AND CERTIFICATION

B.1.1 The wingfoil-board shall be in compliance with the **class rules**.

### B.2 EQUIPMENT IDENTIFICATION

B.2.2 Hydrofoil system parts shall display a unique manufacturers serial number on mast, fuselage, front wing and stabilizer (rear wing). The manufacturers serial number may be covered by clear coating applied by the manufacturer.

From 01. January 2025 onwards, the manufacturers serial number shall be in a place visible without dismantling the foil system.

B.2.3 Wings shall display a unique manufacturers serial number.

# PART II – REQUIREMENTS AND LIMITATIONS

---

The **crew**, equipment and the wingfoil-board shall comply with the Rules in Part II when *racing* or at times specified in the *rule*. 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 RULES

#### C.1.1 GENERAL

C.1.1.1 The ERS shall apply.

C.1.1.2 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.1.1.3 In accordance with RRS 50.1(b), the total weight of a competitors clothing and equipment (including a harness, if used) shall not exceed 8.00 kg.

#### C.1.2 LIMITATIONS PER COMPETITOR

(a) **Not more than any one hull, any one hydrofoil system mast, a maximum of two hydrofoil system gliders and a maximum of three wings shall be registered for an event.** When a hull, foil system or wing 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 frontwing, one rearwing/stabilizer and one fuselage shall be used in a hydrofoil system glider.

(c) **Not more than one wing shall be registered per size range:**  
**Large: Nominal Size of 6.0 m<sup>2</sup> or bigger**  
**Medium: Nominal Size of 4.5 m<sup>2</sup> to 6.0 m<sup>2</sup>**  
**Small: Nominal Size 4.5 m<sup>2</sup> or smaller**

### 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 IWSA.

### 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 (50+) – Men and Women above the age of 49 years on 1 January of the year of the event.**

## C.3 PERSONAL EQUIPMENT

### C.3.1 MANDATORY

Manufacturers are optional

- (a) A detachable wing-leash shall be used and worn as intended at all times when afloat, except briefly while changing or adjusting clothing or personal equipment.
- (b) If prescribed by the Notice of Race, a detachable brightly colored board-leash shall be used and worn as intended at all times when afloat, except briefly while changing or adjusting clothing or personal equipment.
- (c) **A helmet to the minimum standard EN1385 or EN1077 or equivalent, with a brightly coloured region of at least 300 square centimetres of the exterior surface 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.**
- (d) **Except when the use of a personal flotation device is required by RRS 40, the crew shall wear an impact vest. An impact vest is a garment worn on the torso which is specifically designed to protect the wearer around the torso from impact. From 01 January 2025 onwards, the impact vest shall comply with the minimum standard ISO 12402-5, or USCG Type III, or AS 4758 Level 50 or equivalent.**

### C.3.2 OPTIONAL

- (a) Any container for holding beverages in accordance with RRS Appendix WF4 50.1(a)
- (b) Any electronic or mechanical timing device
- (c) Any heart rate monitoring device
- (d) Any electronic or mechanical compass
- (e) Any camera recording equipment and attachments. The Notice of Race or Sailing Instructions may change this rule.
- (f) A whistle, compliant with ISO 12402-8 or equivalent, securely attached to the competitor.

## C.4 PORTABLE EQUIPMENT

### C.4.1 MANDATORY

Not in use

### C.4.2 OPTIONAL

Manufacturers are optional

- (a) Any brightly coloured board-leash.
- (b) Any camera recording equipment and attachments, removable for weighting. The Notice of Race or Sailing Instructions may change this rule.
- (c) Other recording equipment, tracking devices and associated attachments, where permitted by the Notice of Race and/or Sailing instructions and removable for weighting. The Notice of Race or Sailing Instructions may make its use mandatory when supplied.

## C.5 IDENTIFICATION

Competitors shall comply with RRS WF9

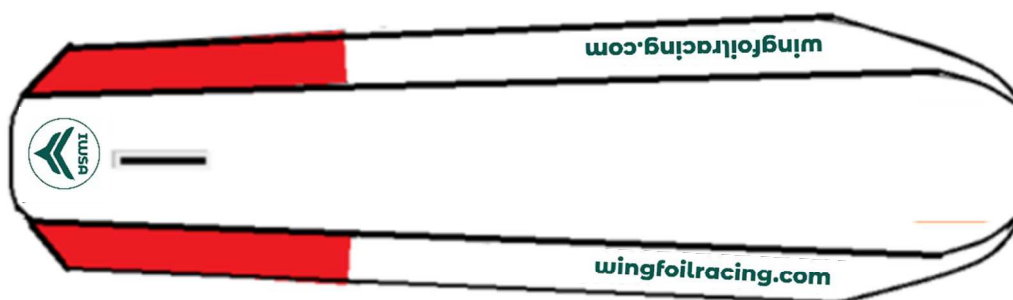
## C.6 ADVERTISING, CLASS INSIGNIA

### 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 bottom of the hull, centered behind the mast box / mast track, within an area of 10x10cm, and shall not be trimmed, cut, or covered by other materials.



Aft Red: Event Advertising

## C.7 HULL

### C.7.1 MODIFICATIONS, MAINTENANCE AND REPAIR

**Modification, maintenance and repair** is allowed.

### C.7.2 NATIONALITY IDENTIFICATION

- a) If prescribed by the Notice of Race, 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.

- b) Flags shall be 350mm in diameter, designed as specified by the WFO, and shall not be trimmed, cut, or covered by other materials.

## **C.8 HULL APPENDAGES**

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

**Modification, maintenance and repair** is allowed.

## **C.9 RIGGING**

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

**Modification, maintenance and repair** is allowed.

### **C.9.2 OPTIONAL**

Any harness lines may be used.

## **C.10 WING**

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

**Modification, maintenance and repair** is allowed.

### **C.10.2 NATIONALITY IDENTIFICATION**

If prescribed by the Notice of Race, the national flag of the crew shall be displayed through two nationality flags and nationality identification as instructed.

## Section D – Hull

### D.1 PARTS

#### D.1.1 MANDATORY

(a) Hull shell

### D.2 GENERAL

#### D.2.1 BUILDERS

(a) Builders are optional

### D.3 HULL SHELL

#### D.3.1 MATERIALS

(a) Materials are optional

#### D.3.2 CONSTRUCTION

(a) The hull shell shall be constructed as a single shell.

### D.4 ASSEMBLED HULL

#### D.4.1 FITTINGS

(a) Builders are optional

#### D.4.2 DIMENSIONS

	Min	Max
<b>Hull Length</b>	-	1950mm
<b>Hull Beam</b>	-	800mm

## Section E – Hull Appendages

### E.1 PARTS

#### E.1.1 MANDATORY

(a) **Hydrofoil**

### E.2 GENERAL

#### E.2.1 BUILDERS

(a) Builders are optional

### E.3 HYDROFOIL

#### F.3.1 MATERIALS

(a) Materials are optional

#### F.3.2 CONSTRUCTION

(a) Construction is optional

#### F.3.3 FITTINGS

(a) Builders are optional

## Section F – Rigging

### F.1 PARTS

#### F.1.1 OPTIONAL

- (a) Running **rigging**

### F.2 GENERAL

#### F.2.1 BUILDERS

- (a) Builders are optional

### F.3 RUNNING RIGGING

#### F.3.1 MATERIALS

- (a) Materials are optional

#### F.3.2 CONSTRUCTION

- (a) Construction is optional

#### F.3.3 FITTINGS

- (a) Builders are optional

## Section G – Wing

### G.1 PARTS

#### G.1.1 MANDATORY

- (a) Wing (see H.1)

### G.2 GENERAL

#### G.2.1 BUILDERS

- (a) Builders are optional

### G.3 WING

#### G.3.1 MATERIALS

- (a) Materials are optional

#### G.3.2 CONSTRUCTION

- a) The wing shall have a Leading Edge and a Trailing Edge
- b) The Leading Edge shall be inflatable.
- c) The wing shall be symmetrical within production tolerances, perpendicular to the centerline (drawn through the middle of the Leading Edge and the Trailing Edge).
- d) The wing shall not be **connected** to a **spar** or the **hull**.
- e) The wing shall be constructed so that it is directly controlled with the hands of the competitor on the handle(s).
- f) Any type and number of handle(s) may be used
- g) The wing shall have positive buoyancy.
- h) **From 01. January 2025 onwards: The wing shall have a minimum of one **window** on each side of the centre strut (or the equivalent**

centre line of the wing).

A one-piece **window** may extend over the centre line of the wing to both sides of the wing.

### G.3.3 DIMENSIONS

- a) The perpendicular distance from the outside of the handle to the outside shell of the wing at the centreline shall not exceed 80cm.
- b) The perpendicular distance from the lowermost point of the harness lines to the outside shell of the wing at the centreline shall not exceed 160cm

# PART III – APPENDICES

---

The rules in Part III are **closed class rules** as defined in the ERS. Measurement shall be carried out in accordance with the ERS except where varied in this part.

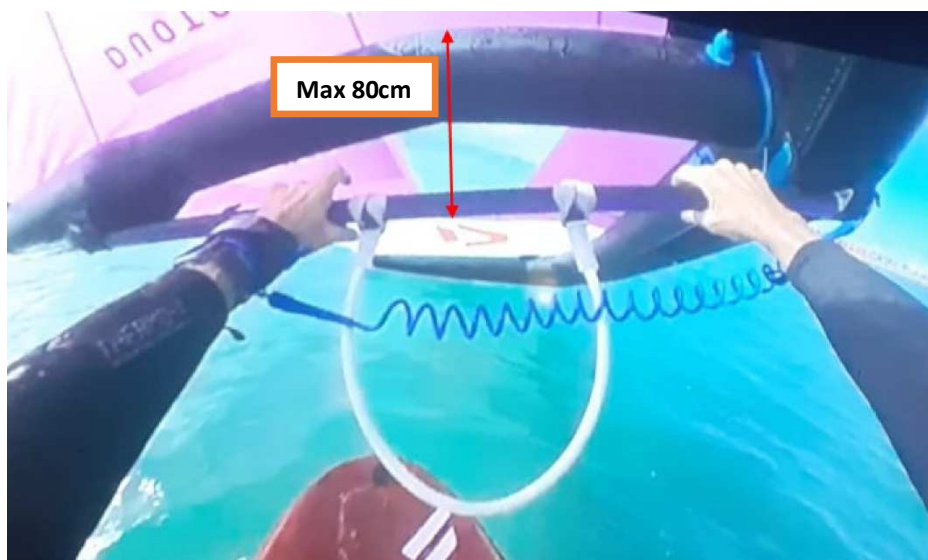
## Section H – Definitions and Measurement

### H.1 WING

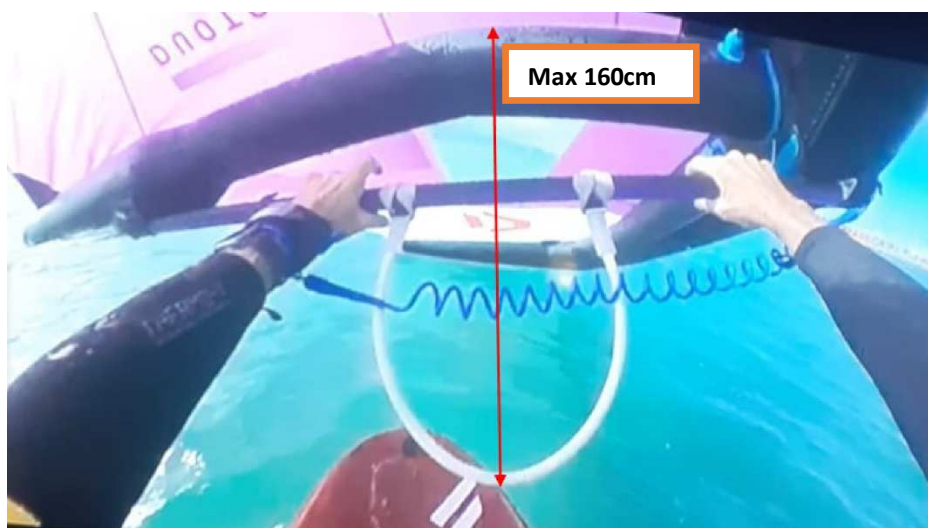
#### H.1.1 DEFINITIONS



## H.2.1 HANDLE DISTANCE TO WING



## H.2.2 HARNESS LINE DISTANCE TO WING



**EFFECTIVE DATE: 01 MARCH 2024**

**PREVIOUS ISSUE: none**