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Class Rules

International iQFOiL Class Association



The iQFOiL was designed in 2019 by Starboard and adopted as a World Sailing Class in 2020

sport / nature / technology



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INTRODUCTION

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

iQFOiL hulls, hull appendages, rigs and sails are manufacturing controlled.

All equipment shall only be manufactured by approved manufacturers – in the class rules referred to as licensed manufacturers unless otherwise permitted by these rules.

Equipment is required to comply with the International iQFOiL Building Specification and is subject to a World Sailing approved manufacturing control system.

iQFOiL hulls, hull appendages, rigs and sails may, after having left the manufacturer, only be altered to the extent permitted in Section C of the class rules.

Owners and crews should be aware that compliance with rules in Section C is NOT checked as part of the certification process.

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.

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.1.4 The term ‘board’ or ‘windsurfer’ in these rules means **boat**.

A.2 ABBREVIATIONS

- A.2.1 WS World Sailing
MNA WS Member National Authority
iQFOiL iQFOiL 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 **Class Rules authority** of the class is World Sailing, which shall cooperate with the iQFOiL in all matters concerning these **class rules**.
- A.3.2 Neither WS nor the iQFOiL accept any legal responsibility in respect of these **class rules** or any claim arising therefrom.

A.4 ADMINISTRATION OF THE CLASS

- A.4.1 WS has delegated its administrative functions of the class to the iQFOiL and its **certification authority** to the iQFOiL Technical Committee.

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 “*italics*” the definition in the RRS applies.

A.6 CLASS RULES CHANGES

- A.6.1 Amendments to these **class rules** are subject to the approval of World Sailing in accordance with World Sailing Regulations.

A.7 INTERPRETATION OF CLASS RULES

- A.7.1 Interpretation of these **class rules** shall be made in accordance with WS Regulations.

A.8 WS PLAQUE

- A.8.1 Licensed manufacturers shall pay the ‘plaque fee’ to WS.

A. 9 SAIL NUMBERS

A.9.1 Sail numbers shall be issued by the iQFOiL who may delegate this to the NCA's.

Section B – Equipment Eligibility

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

B.1 CLASS RULES AND CERTIFICATION

B.1.1 The Windsurfer shall:

- (a) have been manufactured by licensed manufacturers approved by WS (except as otherwise stated in these **class rules**).
- (b) carry a unique WS QR sticker applied by the licensed manufacturer where required by the **class rules**. In the event of the loss of a WS QR sticker, the iQFOiL Technical Committee may issue a **certificate** for that equipment item which shall be produced at an event. See RRS 78.2. Contact technical@iqfoilclass.org
- (c) be in compliance with the **class rules** and have not been modified in any way other than permitted by the **class rules**

PART II – REQUIREMENTS AND LIMITATIONS

The **crew** and his/her equipment shall comply with the Rules in Part II when *racing*. Inspection to check conformity with the rules of Section C is not part of **fundamental measurement**.

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) RRS 50.1(b) is changed as permitted by the rule itself to specify a clothing and equipment weight as set in C.3.4 and the harness weight as set in C.3.3(i).
- (c) RRS Appendix G is changed as permitted by RRS G.5 to set the Sail Identification requirements as defined in C.10.2

C.2 CREW

C.2.1 LIMITATIONS

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

C.2.2 MEMBERSHIP

- (b) For all National Championships, World Championships, WS World Cup Series events and Continental Championships the **crew** shall be member of his/her NCA. If there is no NCA then the **crew** must be a member of the iQFOiL.

C.2.3 DIVISIONS

- (a) Gender divisions
 - (i) Men
 - (ii) Women
- (b) Age divisions
 - (i) U23: crews under the age of 23 at 31st December in the year of competition. The U23 division will use the same equipment as the Senior division.

C.3 PERSONAL EQUIPMENT

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

C.3.2 MANDATORY

- (a) For Use:
 - (i) The **crew** shall wear a helmet that shall be to the minimum standard EN1385, EN1077, EN 966, ASTM 2040, Snell S98 or equivalent, with a brightly colored region of at least 300 square centimeters of the exterior surface that can be seen from above the water with crew lying face down or face up. The Notice of Race or Sailing Instructions may change this rule to prescribe alternative or additional standards.

- (ii) The **crew** shall carry a whistle
- (iii) 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. The impact vest may act as **personal flotation device** if in accordance with C.1.1(a). From January 1st 2024, the impact vest shall comply with the minimum standard ISO 12402-5, or USCG Type III, or AS 4758 Level 50 or equivalent, and shall be used at all times.

C.3.3 OPTIONAL

In addition to food and personal effects to keep warm and/or dry, and/or to protect the body, the **crew** may wear the following:

- (i) a harness which shall have positive buoyancy in fresh water and with a maximum permitted weight of 4kg.
- (ii) a **personal flotation device** to the minimum standard ISO 12402-5, or USCG Type III, or AS 4758 Level 50 or equivalent.
- (iii) additional body protection gear.
- (iv) a drinking container in compliance with RRS Appendix B, B.50.1(a).
- (v) an electronic or mechanical timing device.
- (vi) a heart rate monitoring device

C.3.4 TOTAL WEIGHT

As permitted by RRS 50.1(b), the total weight of a competitors clothing and equipment, including footwear and clothing worn below the knee, shall not weight more than 10 kg. The harness and drinking container (empty) are considered as competitors clothing and equipment and therefore included. When the crew is required to carry equipment supplied by the Organizing Authority, it shall be excluded from weighing under C.3.4.

C.4 PORTABLE EQUIPMENT

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

C.4.2 MANDATORY

(a) For Use:

- (i) The Notice of Race or Sailing Instructions may require a **boat** or **crew** to carry supplied recording equipment (sound and/or video), a GPS or tracking device as supplied by the Organising Authority, the Organising Authority shall provide instructions of its fitting to the **boat** or **crew**.

C.4.3 OPTIONAL

For the avoidance of doubt, when items listed here are worn or carried by the **crew** they shall be included for weighing under C.3.4.

(a) For Use:

- (ii) spare angle spacers, torque keys and spare hull appendage fittings.

- (iii) Timing devices.
 - (iv) Recording equipment (sound and/or video) and personal GPS devices and any associated attachment fittings, when permitted by the Notice of Race or Sailing Instructions.
- (b) Not for Use:
- (i) A towrope of minimum length 5m may be carried by the crew. The Notice of Race or Sailing Instruction may change this rule or make its use mandatory.

C.5 ADVERTISING

C.5.1 LIMITATIONS

Advertising shall only be displayed in accordance with WS Advertising Code. (See WS Regulation 20).

C.6 WINDSURFER

C.6.1 REPAIR

- (a) All **repairs** require written approval unless stated otherwise in these rules.
- (b) Approval may only be granted by the iQFOiL Technical Committee: technical@iqfoilclass.org
- (c) Permission to undertake a **repair** during an event may be granted by the Event Technical Committee. The required written approval by the iQFOiL Technical Committee may be granted after the event.
- (d) **Repairs** shall not be used to reinforce an existing part and shall not alter the essential shape, characteristics, and function of the original equipment.

C.6.2 LIMITATIONS

- (a) No more than 1 **hull**, 1 **sail**, 1 **mast**, 1 **boom**, 1 fin and 1 foil system with two fuselages (one of each type), may be registered for an event. When lost or accidentally damaged beyond **repair**, a replacement may be used if approved by the Event Technical Committee.
- (b) The use of either a fin or foil system shall be governed by the Notice of Race or Sailing Instruction.
- (c) Replacements to registered equipment during an event shall only be made with the approval of the Event Technical Committee unless otherwise permitted in the **class rules**.

C.7 HULL

C.7.1 MODIFICATIONS

- (a) A maximum of eight and a minimum of two foot straps shall be fitted to the existing inserts.
- (b) Foot straps and **fittings** may be removed, replaced or added during an event without approval while in compliance with C.7.1(a). Replacements or additions may be of any type and manufacturer. The total weight of all fitted foot straps with fittings must be a minimum of 350 grams in wet condition.

- (c) The **hull** box (where the **hull appendages** are fitted) lateral sides (port and starboard) may be shimmed with removable materials which shall not protrude in height the depth of the box.
- (d) The **hull** box top may be shimmed (between the foil mast and the **hull**) with removable materials, however the minimum distance between the fuselage and the board, measured along the center line of the mast, shall not exceed 965 mm and the relative angle between the fuselage (measured on the fuselage immediately behind the front wing) and the board (measured on the board within 10 cm and parallel to the mast) shall be between 0 to 4 degrees.

C.7.2 MAINTAINENCE

- (a) **Cleaning** of the **hull** permitted.

C.7.3 REPAIR

- (a) **Repairs** to the **hull** require approval as described in C.6.1 with the following exceptions:
 - (i) filling and blending of chips, gouges and splits smaller than 200mm in length may be carried without approval other than those in the **hull** box which require approval as described in C.6.1.

C.7.4 HULL WEIGHT

- (a) The weight of the **hull** in dry condition with no foot straps shall be a minimum of 11.10kg.
- (b) The weight of the **hull** in wet condition with the minimum foot straps, as highlighted in C.7.1(a), and its fittings shall be a minimum of 11.65kg. For the purpose of checking this rule, the measurement shall be taken after being placed in the water unaided to float for 30 seconds on each side and after left standing vertically on its aft end for a minimum of 10 minutes.

C.7.5 CORRECTOR WEIGHTS

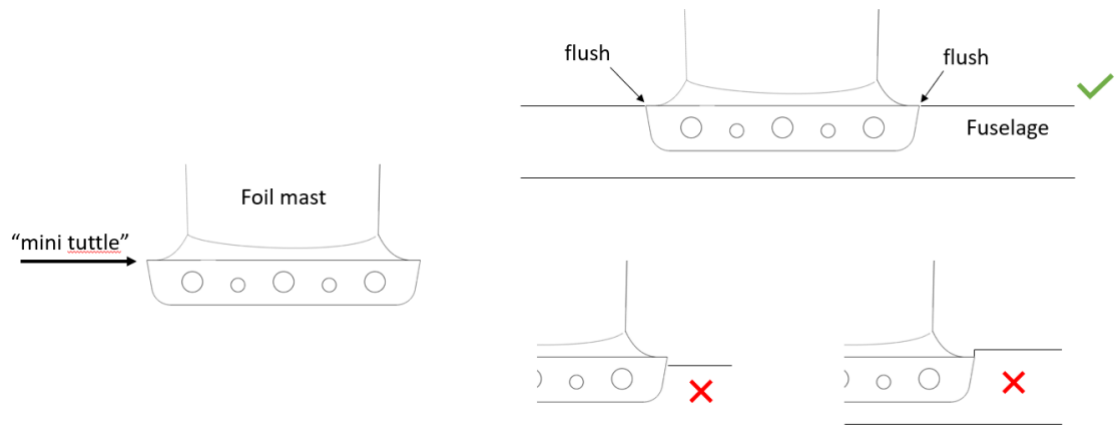
- (a) When the **hull** weight is less than the minimum required, **corrector weights** of lead shall be fastened to a location to be determined by the Event Technical Committee.
- (b) The total weight of **corrector weight** shall not exceed 200g.
- (c) **Corrector weights** installed by licensed manufacturers shall not be removed.

C.8 HULL APPENDAGES

C.8.1 MODIFICATIONS

- (a) The foil mast base along all the sides that fit into the hull box may be **sanded**.
- (b) The foil system fittings (bolts and washers) may be replaced by any fittings of the same size with the following exception:
 - i) The angle spacers screws may be replaced by other screws of different length.

- (c) When using a foil system, the **crew** may replace the fuselage for the remaining registered fuselage. The Notice of Race or Sailing instructions may change this rule to define how the changes shall be managed.
- (d) When using a foil system, the **crew** may replace the angle spacers for any of the original angle spacers listed in E.1.1.
- (e) The fuselage should be fitted so that it is installed flush with the foil mast horizontal part of the mini tuttle (see diagram). The plastic cap covering the foil mast that goes in the fuselage may be **sanded** and may be trimmed flush with the fuselage. The foil mast base along all sides that fit into the fuselage may be shimmed.



- (f) The plastic angle spacer edges can be trimmed flush with the fuselage
- (g) The mast base transversal connection screw holes may be **modified** to be aligned with the fuselage screw holes.

C.8.2 MAINTENANCE

- (a) **Maintenance of appendages** is permitted with the following exceptions:
 - (i) **Coating** is not permitted as part of **maintenance**.
 - (ii) **Sanding** as part of **maintenance** is only permitted on the paint layers and shall not reach the internal carbon fibres.

C.8.3 REPAIR

- (a) **Repairs** to the **appendages** require approval as described in C.6.1, except filling and blending of small voids (chips and gouges) smaller than 10mm x 10mm which may be carried out without approval.

C.9 RIG

C.9.1 MODIFICATIONS

- (a) Ropes may be replaced by any type of ropes.
- (b) Any adjustable downhaul system having not more than an 8:1 mechanical advantage may be attached to the tail of the licensed manufacturer's downhaul unit.
- (c) A second removable outhaul hook from the licensed manufacturer type may be added to the clew.
- (d) Any adjustable outhaul system may be used. The system may use any number of blocks, ropes or pulley systems.

- (e) Any uphaul may be fitted.
- (f) Any harness lines may be used.
- (g) Tape may be used in the boom to mark locations.
- (h) The mast spigot may be shimmed with tape.
- (i) The mast extension may be shimmed with tape.
- (j) Rivets may be replaced without approval with screws or bolts with optional nuts but shall be fitted into the original inserts that shall not be modified.

C.9.2 MAINTENANCE

- (a) **Cleaning** and **lubricating** of spars is permitted.

C.9.3 REPAIR

- (a) **Repairs** to the mast and boom carbon components require approval as described in C.6.1. **Repairs** of other rig components may be carried without approval.

C.10 SAILS

C.10.1 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) **Repair** of **sails** shall not affect the shape, characteristics, function and look of the original and may be carried out without approval with the following exception:
 - (i) During an event, **repairs** of **sails** require the approval of the Event Technical Committee.
- (b) Transparent tape may be placed on the **sail** adjacent to the **boom**.
- (c) Camber inducers may be lubricated.
- (d) **Cleaning** is permitted.
- (e) Battens and camber inducer spacers may be replaced. Such replacements shall be made on a 'like for like' basis using fittings supplied by the licensed manufacturer.
- (f) Batten tubes may be shortened at the outer end.

C.10.2 SAIL IDENTIFICATION

- (a) At World Championships, WS World Cup Series events and Continental Championships, when this rule is invoked by the Notice of Race, the **sail** shall carry a number issued annually by the Class ("Identification disc").
- (b) The **sail** shall carry the National Letters and Sail Numbers as specified in Section H of the **class rules**. When rule C.10.2(a) is invoked, the Notice of Race may change this rule to not apply or to make the use of National Letters and Sail Numbers optional.
- (c) For all National Championships, World Championships, WS World Cup Series events and Continental Championships the sails shall display the

competitor national flag and class insignia. The display shall comply with the details included in Section H of the **class rules**.

- (d) The display of the competitor name and class division is permitted and required when invoked by the Notice of Race and shall comply with the details included in Section H of the **class rules**.

Section D – Hull

D.1 GENERAL

All parts of the **Hull** and its associated fittings are to be produced by licensed manufacturers unless specified otherwise in C.7.1.

D.1.1 PARTS

- (a) iQFOiL 95 Carbon Reflex hull for the Men and Women division,
- (b) Its associated fittings:
 - a. mast track
 - b. fin/foil box
 - c. foot straps
 - d. foot strap fittings

D.2 IDENTIFICATION

- (a) The **hull** shall carry a manufacturers serial number and have a unique WS QR sticker applied by the licensed manufacturer.
- (b) Hulls shall display the official WS logo as applied by the manufacturer.

D.3 MATERIALS, CONSTRUCTION AND DIMENSIONS

- (a) The hull shall comply with the iQFOiL technical specifications as approved by WS.

Section E – Hull Appendages

E.1 GENERAL

All parts of the **hull appendages** and its associated fittings are to be produced by licensed manufacturers unless specified otherwise in C.8.1.

E.1.1 PARTS

- (a) 68 cm fin for the Men division
- (b) 66 cm fin for the Women division
- (c) carbon foil for the Men and Women including:
 - i. foil mast 95cm
 - ii. front wing 900
 - iii. tail wing 255 (-2 degrees)
 - iv. one of the two fuselages (95 plus or 115 plus)
 - v. one of the seven angle spacers (-1, -0.5, 0, +0.5, +1).

vi. associated fittings.

E.2 IDENTIFICATION

(a) The fin, foil mast, front wing, tail wing and fuselage shall carry a unique WS QR sticker issued by the manufacturer.

E.3 MATERIALS, CONSTRUCTION AND DIMENSIONS

(a) **Hull Appendages** shall comply with the iQFOiL technical specifications as approved by WS.

Section F – Rig

F.1 GENERAL

All parts of the **Rig** and its associated fittings are to be produced by licensed manufacturers unless specified otherwise in C.9.1.

F.1.1 PARTS

(a) 490 **Mast** for the Women division

(b) 530 **Mast** for the Men division

For the Men and Women division:

(c) 210 – 250 Carbon Race **Boom**

(d) 36cm extension

(e) **Mast** base and associated fittings

F.2 IDENTIFICATION

(a) The **mast** and the **boom** shall carry a unique WS QR sticker issued by the manufacturer.

F.3 MATERIALS, CONSTRUCTION AND DIMENSIONS

Mast and **Boom** shall comply with the iQFOiL technical specifications as approved by WS.

Section G – Sail

G.1 GENERAL

All parts of the **Sail** and its associated fittings are to be produced by licensed manufacturers unless specified otherwise in C.10.1.

G.1.1 PARTS

(a) 9.0 m² **sail** for the Men division.

(b) 8.0 m² **sail** for the Women.

For the Men and Women division:

(c) Battens and tensioners

(d) Camber Inducers

(e) Spacers

G.2 IDENTIFICATION

- (a) **Sails** shall carry a unique WS QR sticker in the **tack** applied by the manufacturer.
- (b) The battens shall have an identification sticker applied by the licensed manufacturer.

G.3 MATERIALS, CONSTRUCTION and DIMENSIONS

The **sail** and battens shall comply with the iQFOiL technical specifications as approved by WS.

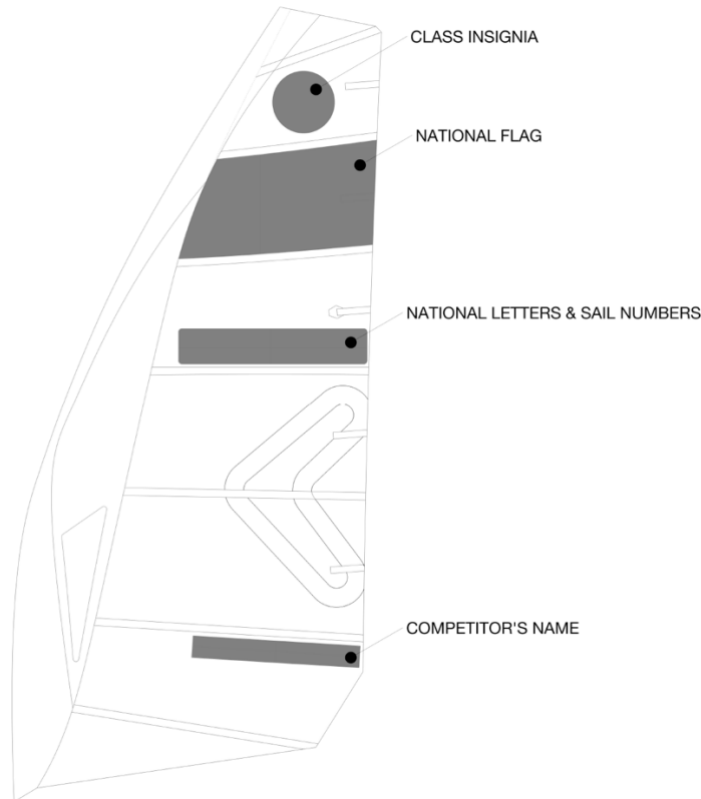
PART III – APENDICES

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

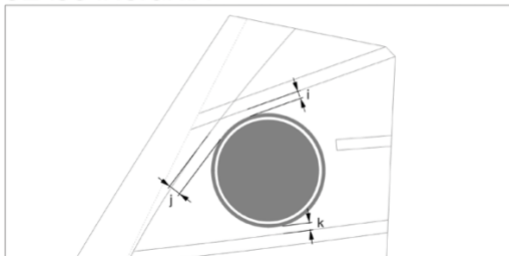
SECTION H: SAIL IDENTIFICATION

H.1 GENERAL

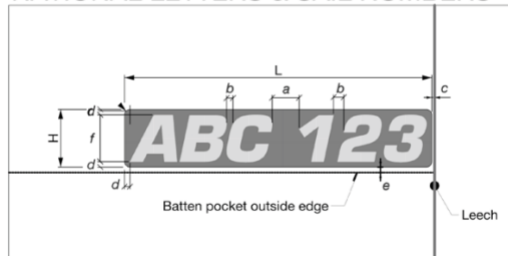
Stickers shall be placed back to back on both sides of the sail. Characters shall be of font type 'Eurostile Heavy Italic' in white over a black background.



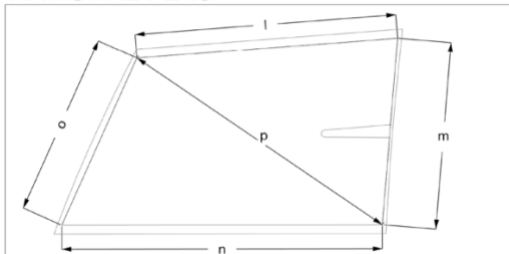
CLASS INSIGNIA



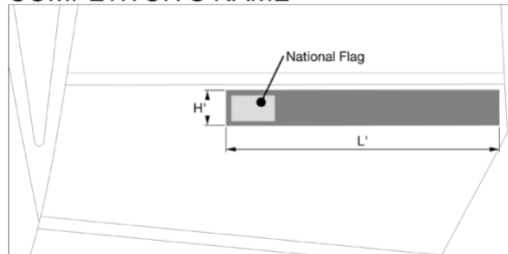
NATIONAL LETTERS & SAIL NUMBERS



NATIONAL FLAG



COMPETITOR'S NAME



H.2 NATIONAL LETTERS AND SAIL NUMBER

(a) National letters and sail numbers stickers do not require to be produced by licensed manufacturers.

(b) Shall comply with the following specifications (see previous image)

| | <u>definition</u> | <u>measurements</u> |
|---|---|------------------------------|
| f | font size height | 190mm (+5mm) |
| d | distance from characters to edge of sticker | 20mm (+2mm) |
| H | sticker height. Result of font height and distances to edge above and below | n/a |
| a | distance between National Letters and Sail Numbers. Default "space" character width. | Font "space" character width |
| b | distance between characters varies. Default font distance between characters | n/a |
| L | sticker length. Varies with different combinations of National letters and sail numbers | n/a |
| r | maximum radius at corners | 20mm |
| c | maximum distance from sticker aft edge to leech tabling | 5mm |
| e | minimum distance from sticker bottom edge to batten flatter patch | 10mm |

H.3 CLASS INSIGNIA

(a) The class insignia shall be produced by a licensed manufacturer.

(b) The Men division shall carry the Dark red insignia. The Women division shall carry the white insignia.

(c) Shall comply with the following specifications (+- 2 mm, see previous image):

$$i = 15\text{mm}, j = 15\text{mm}, k = 15\text{mm}$$

H.4 NATIONAL FLAG

(a) National flags do not require to be produced by licensed manufacturers.

(b) Stickers shall be placed back to back on both sides and cover the full patch area and complying with the following specifications: (see previous image)

a. The sticker shall cover the area between battens two and three leaving a maximum of 20mm gap to surrounding seams and tabling.

b. The Flag design shall comply with the competitors National Olympic Committee flag. An alternative design may be used with approval of the competitors MNA.

H.5 COMPETITORS NAME

(a) The Competitors Name stickers do not require to be produced by licensed manufacturers.

(b) Shall comply with the following specifications (see previous image):

i. Shall read either the first and last name or first name initial and last name.

ii. Length (L') varies with different name combinations and a Height (H') of 130mm (+- 5mm) resulting from a font height size of 100mm and 15mm above and below to the sticker edge.

iii. If a national flag is included, it shall be displayed within the sticker boundaries in front of the name.

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