

INTERNATIONAL FIREBALL CLASS

The following amendments to the Class Rules have been approved to be effective 1st March 2001.

Hull

Rule 9.1

Amendment: Delete current rule and replace with the following words:

“9.1 Materials

A Fireball hull may be made from the materials listed in Category 1 and Category 2 below. No other material shall be used, except that it is permitted to use:

- Polyester or Epoxy Resin
- Microballoons or similar thickening agent and/or glass tape for joints between panels
- Aluminium or steel struts as strain members supporting the centreboard case
- Any low friction material on the inside of the centreboard case
- Any material for chafing pieces on the deck or in the mast partners”

Weight

Rule 9.6

Amendment: Delete current rule and replace with the following words: “The hull shall weigh not less than 79.4kg. The initial weighing, or any subsequent re-weighing, of the hull shall be done (after painting and/or varnishing if necessary) with the boat complete with hatch covers and toe straps and all fittings permanently fastened, bolted or screwed to the hull, but not including the centreboard, wire or rope stops, sheets or control lines. The initial weighing shall be done before the boat is launched for the first time. Any re-weighing for the purpose of changing correctors shall be done after the boat has been kept out of water, in a dry condition, with the hatch covers removed, and cover off, for at least 12 days. If a boat is found under weight at the time of measurement, correcting weights shall be fitted to bring the boat up to minimum permitted weight. The combined weight of the correctors shall not exceed 7.5kg. The correctors shall be bolted to the underside of the thwart in a visible position. The total weight of the correctors shall be shown on the measurement certificate. No correctors shall be removed or altered without the boat being re-weighed by an official measurer.”

Rule 9.7.8

Amendment: Delete the existing rule and replace with the following: “In addition to the self bailers allowed by Rule 9.21, and notwithstanding Rule 9.20, two drainage tubes with a cross sectional area of not more than 5,000mm² may be fitted through the aft bulkhead and the aft transom, provided they are effectively sealed to prevent water from entering the watertight compartments. The cross-section of the drainage tubes may be any shape, but the dimensions shall not exceed 75mm in any direction.

Not more than two drainage sockets may be fitted to each watertight compartment.”

The following class rule amendments were approved in November 2000, subject to further editing in line with the standard class rules format. (Note: All italicised terms are defined in ISAF's "Equipment Rules of Sailing".)

Rule 20

Amendment: Add the following words: “Measurement of sails shall be carried out in accordance with the Equipment Rules of Sailing.”

Material

Rule 20.2

Amendment: The first sentence should be changed to read: “*Sails* shall be *single-ply soft sails* made of *woven ply*.”

Stiffening and Reinforcement

Rule 20.3.1

Amendment: Delete the current rule and replace with the following: “20.3.1 *Primary reinforcement* of any *woven ply* is permitted only at the *sail corner measurement points* and at the Cunningham eye. This *primary reinforcement* shall be within a distance from the relevant *sail corner measurement point* or Cunningham eye of: Mainsail - 320mm, Foresail - 280mm, Spinnaker - 280mm.”

Rule 20.3.2

Amendment: Delete the current rule and replace with the following: “20.3.2 *Secondary reinforcement* of the same *woven ply* as the *body of the sail*, as a continuation of the *primary reinforcement*, shall be within a distance from the *sail corner measurement point* or Cunningham eye of: Mainsail – 960mm, Foresail – 840mm, Spinnaker – 840mm. Stiffening of the *secondary reinforcement* by the addition of bonding agents, “close stitching” (consisting of parallel, or nearly parallel, lines of stitching, which are 40mm apart or less and are not sewing the edges of reinforcing patches) or otherwise is not permitted.”

Rule 20.3.3

Amendment: Delete the current rule and replace with the following: “20.3.3 *Tabling* at the edges of the sail is permitted provided it is not stiffened. *Tabling width* shall be uniform with a tolerance of $\pm 5\text{mm}$ and extend the full length of the luff, leech or foot, except for a headsail when any extension of tabling beyond an area of corner reinforcement may be tapered towards the outside edge of the sail for the last 100mm.”

Rule 20.3.4

Amendment: Delete the current rule and replace with the following: “20.3.4 *Chafing patches* shall not be larger than is necessary to resist the chafe but in any case shall not exceed the following dimensions in any direction: Mainsail - 960mm, Foresail – 840mm.”

Rule 20.3.5

Amendment: Delete the current rule and replace with the following: “20.3.5 *Flutter patches* shall not exceed the following dimensions in any direction: Mainsail – 105mm, Foresail – 75mm, Spinnaker - 75mm.”

Rule 20.3.6

Amendment: Delete the current rule and replace with the following: “20.3.6 *Secondary reinforcement* at a spinnaker recovery point is permitted.”

Mainsail**Rule 20.4**

Amendment: Delete the current rule and replace with the following: “20.4.1 The *leech length* shall not exceed 6350mm.”

Rule 20.4.2

Amendment: Delete the current rule and replace with the following:

“20.4.2 The *quarter width* shall not exceed 2550mm.
 The *half width* shall not exceed 1940mm.
 The *three-quarter width* shall not exceed 1140mm.”

Rule 20.4.3

Amendment: Delete the current rule and replace with the following: “20.4.3 The *top width* shall not exceed 180mm. The headboard shall not exceed 160mm in depth.”

Rule 20.4.4

Amendment: Delete the current rule and replace with the following: “20.4.4 The number of battens shall be four: The top batten shall not exceed 1170mm in length and shall extend to the mast. The distance of the top of the upper batten at the leech from the *head point* shall not be less than 1280mm. The bottom batten shall not exceed 690mm in length and shall nowhere be less than 800mm from the *foot*. The two intermediate battens shall not exceed 840mm in length. The battens shall not exceed 50mm in width.”

Rule 20.4.5

Amendment: Delete the current rule and replace with the following: “20.4.5 One *window opening* may be fitted. It shall not exceed 0.28m² in area, nor be less than 150mm from any edge of the sail.”

Rule 20.4.6

Amendment: Delete the current rule and replace with the following: “20.4.6 A *double luff sail* or loose footed sail is prohibited.”

Rule 20.5.2

Amendment: Delete the current rule and replace with the following: “20.5.2 The *luff length* shall not exceed 4320mm.”

Rule 20.5.3

Amendment: Delete the current rule and replace with the following: “20.5.3 The *luff perpendicular* shall not exceed 1525mm.”

Rule 20.5.4

Amendment: Delete the current rule and replace with the following: "20.5.4 The *foot median* shall not exceed 155mm plus the mean of the *luff length* and the *leech length*."

Rule 20.5.5

Amendment: Delete the current rule and replace with the following: "20.5.5 No battens or stiffening, other than *primary reinforcement* and *secondary reinforcement*, are permitted."

Rule 20.5.6

Amendment: Delete the current rule and replace with the following: "20.5.6 One *window opening* may be fitted. It shall not exceed 0.28m² in area, nor be less than 150mm from any edge of the sail."

Rule 20.6.1

Amendment: Delete the current rule and replace with the following: "20.6.1 The spinnaker shall be a symmetrical three cornered sail. No headboard, battens or stiffening, other than *primary reinforcement* and *secondary reinforcement*, are permitted."

Rule 20.6.2

Amendment: Delete the current rule and replace with the following: "20.6.2 When measuring, the sail shall be folded in half with the *clew points* laid on top of each other."

Rule 20.6.3

Amendment: Delete the current rule and replace with the following: "20.6.3 The distance between the *head point* and the *clew points*, measured round the edge of the sail, shall not exceed 4350mm."

Rule 20.6.4

Amendment: Delete the current rule and replace with the following: "20.6.4 The *foot median* shall not exceed 5100mm."

Rule 20.6.5

Amendment: Delete the current rule and replace with the following: "20.6.5 The distance between the *mid foot point* and the *clew points*, measured round the foot of the sail, shall not exceed 1500mm."

Rule 20.6.6

Amendment: Delete the current rule and replace with the following: "20.6.6 At no point shall the distance between the leeches and the centre fold, when taken at right angles to the centre fold, exceed 1800mm."

Rule 20.6.7

Amendment: Delete the current rule and replace with the following: "20.6.7 The *half width* shall not be less than 1500mm."

Rule 20.6.8

Amendment: Delete the entire rule.

Rule 20.8.5

Amendment: Delete the current rule and replace with the following: "20.8.5 The letters and numbers shall be of the following minimum dimensions:

Height:	300mm min.
Width:	200mm min. (excl. no.1 and letter "I")
Thickness:	40mm min.
Space between adjoining letters and numerals:	60mm min."

Competitor Clothing and Weight of Clothing**Rule 21.2**

Amendment: Delete current rule and replace with the following words: "A competitor's clothing shall not weigh more than 8 kilograms, when weighed as determined by RRS Appendix J. This weight excludes a trapeze harness and clothing (including footwear) worn only below the knee."

Trapeze Harness**Rule 21.3**

Amendment: Delete current rule and replace with the following words: "A trapeze belt or harness may only be worn by one crew member. A trapeze belt or harness shall have positive buoyancy and shall weigh no more than 3.5kg weighed as determined by RRS Appendix J.