The International Formula 18 Catamaran Formula was developed in 1993 by Olivier Bovyn and Pierre-Charles Barraud and was adopted as a Recognised class in 1996 and as an International Class in 2002.
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PART III – APPENDICES
INTRODUCTION

FORMULA 18 CLASS RULES GUIDING PRINCIPLES:

The box measurement rule allows manufacturers to develop catamarans that are competitively priced yet allowing freedom to builders to develop higher levels of performance. Being open to any manufacturer allows many builders and sail makers to compete and so keep costs to a minimum.

The Class remains aware to keeping development under control, maintaining a good balance between cost and performance. Corrected crew weights allows fairer racing with more ladies involved as helms and crews.

IF18CA measures hulls, hull appendages, rigs and sails which are required to conform to IF18CA standards, such boat parts only being altered to stay in line with current IF18CA rules.

Appendix A. Cloth list issued 17 March 2010
Appendix B. Class drawings
Appendix C. Championship rules.
PART I – ADMINISTRATION

Section A – General

A.1 LANGUAGE
A.1.1 The official language of the IF18CA 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
IF18CA International Formula 18 Catamaran Association
NCA National Formula 18 Class Association
ERS Equipment Rules of Sailing
RRS Racing Rules of Sailing
IHC ISAF In-House Certification

A.3 AUTHORITIES
A.3.1 The International Authority of the IF18CA is the ISAF which shall co-operate with the IF18CA in all matters concerning these rules.
A.3.2 Notwithstanding anything contained herein, the IF18CA has the authority to withdraw a certificate and shall also do so on the request of the ISAF.
A.3.3 The IF18CA shall keep a record of the measurers recognized by a NCA, an MNA or ISAF.

A.4 ADMINISTRATION OF THE ASSOCIATION
A.4.1 The Class is administered by the IF18CA.
A.4.2 At National level, an NCA administers the Class, by IF18CA delegation. In countries where there is not an NCA, then IF18CA will cover such duties.

A.5 ISAF RULES
A.5.1 These 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 At Class Events RRS 87 and ISAF Regulation 26.5(f) apply.

A.7 CLASS RULES AMENDMENTS
A.7.1 Amendments to these rules are subject to the approval of the ISAF in accordance with the ISAF Regulations, and then ratified by the World Council of the IF18CA before implementation.
A.7.2 Amendments shall be placed on one year's notice unless it is considered essential to act immediately to prohibit or penalize an undesirable feature.

A.8 CLASS RULES INTERPRETATION
A.8.1 Interpretation of these rules shall be made in accordance with the ISAF Regulations.
A.8.2 These rules shall take precedence over the Measurement Form.
A.8.3 Any interpretation of these rules required at an event may be made by the International Jury constituted in accordance with RRS (Appendix N). Such interpretation shall only be valid during the event and the Organising Authority shall, as soon as practical after the event inform ISAF, the MNA and the IF18CA.

A.9 INTERNATIONAL CLASS FEE AND ISAF BUILDING PLAQUE
A.9.1 International Class fee shall be paid every year to ISAF.
A.9.2 From 1 November 2009 all new boats shall have ISAF plaques affixed to the boats.

A.10 RECORD OF MEASUREMENT CERTIFICATES
A.10.1 Each NCA shall keep a complete record of all F18 catamarans and sails that have been certified within that country.

A.11 BOAT CERTIFICATION
A.11.1 A certificate shall record the following information:
(a) Class
(b) Certification authority
(c) Sail number issued by the certification authority
(d) Owner
(e) Hull identification
(f) Builder/Manufacturers details
(g) Date of issue of initial certificate
(h) Date of issue of certificate.

A.12 INITIAL BOAT CERTIFICATION
A.12.1 For a certificate to be issued to boat not previously certified:
(a) Certification control shall be carried out by the official measurer who shall complete the appropriate documentation.
(b) The documentation and certification fee, if required, shall be sent to the certification authority.
(c) Upon receipt of a satisfactorily completed documentation and certification fee, if required, the certification authority may issue a certificate.

A.13 VALIDITY OF CERTIFICATE
A.13.1 A certificate becomes invalid upon:
(a) the change to any items recorded on the hull certificate as required under A.11.1
(b) any alteration to **corrector weights**
(c) withdrawal by **certification authorities**
(d) the issue of a new **certificate**

**A.14 BOAT RE-CERTIFICATION**

A.14.1 The **certification authority** may issue a **certificate** to a previously certified **boat**:

(a) when it is invalidated under A.13.1(a) or (b), after receipt of the old **certificate** and **certification fee** if required.
(b) when it is invalidated under A.13.1 (c), at its discretion.
(c) in other cases, by application of the procedure in A.12.

**A.15 RETENTION OF CERTIFICATION DOCUMENTATION**

A.15.1 The **certification authority** shall:

(a) retain the original documentation upon which the current **certificate** is based.
(b) upon request, transfer this documentation to the new **certification authority** if the hull is exported.
Section B – Boat Eligibility

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

B.1 CLASS RULES AND CERTIFICATION
B.1.1 The boat shall:
(a) be in compliance with these class rules
(b) have a valid certificate for platform, mast, sails, appendages
(c) have valid certification marks as required
(d) have a completed, signed and dated Measurement Form.

B.1.2 A certificate may be refused if there is any doubt over compliance with these class rules. An Official Measurer shall report on the Measurement Form anything which he considers in breach of these class rules, and shall not sign the Form. A copy of the incomplete Form, together with an explanation of the points in question shall immediately be sent to the IF18CA Secretariat and the ISAF for a ruling in writing.

B.1.3 All certified boats may be liable to re-measurement at the discretion of the certification authority or by an International Jury constituted in accordance with the RRS (Appendix N.) at an event, but only by an Official Measurer.

B.2 CERTIFICATION MARKS
B.2.1 A valid Association sticker as required by the IF18CA shall be affixed to each measured item in the required position (see diagram in Appendix B), as a part of certification marks.
PART II – REQUIREMENTS AND LIMITATIONS

The intention of these Class rules is to ensure that the boats are as alike as possible in all aspects affecting performance. The crew and the boat 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 where anything not specifically permitted by the Class rules is prohibited. Certification control and 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) The ERS shall apply.
   (b) RRS 49.1 shall not apply.
   (c) RRS 50.4 shall not apply.
   (d) RRS Appendix G.1.3 (d) shall not apply.

C.2 ADVERTISING
C.2.1 LIMITATIONS
Advertising shall only be displayed in accordance with the ISAF Advertising Code. (See ISAF Regulation 20)

C.3 CREW
C.3.1 MEMBERSHIP
   a) Crews are not permitted to enter a Formula 18 event unless they are current members of their NCA.
   b) In countries where there is no NCA, the crew shall be member of the IF18CA.

C.3.2 LIMITATIONS
   (a) The crew shall consist of 2 persons.
   (b) The crew shall use the sails (as defined in G.2.3) in accordance with the following weight categories:
      (1) Crew between 115 kg and 130 kg shall sail with the small jib and small spinnaker and then shall carry extra weight equal to half the difference between their actual weight and 130 kg.
      (2) Crew between 130 kg and 140 kg shall sail with the small jib and the small spinnaker and shall not carry extra weight.
      (3) Crew in between 140 kg and 150 kg may use the large jib and the large spinnaker and then shall carry extra weight equal to half the difference between their actual weight and 150 kg.
(4) **Crew** weighing 150 kg and over may use the large jib and the large spinnaker without carrying any extra weight.

C.3.3 **WEIGHTS**

(a) The minimum combined **crew** weight is 115 kg

(b) They are four categories of **crew** weight:

1. from 115 kg to less than 130 kg
2. from 130 kg to 140 kg
3. from 140 kg to 150 kg
4. above 150 kg

(c) **Crew** corrector weights shall be of metal and securely fastened on the port side, either to the outside of the front crossbeam or to the strut, and shall be removable for checking.

(d) **Crews** may be weighed at Registration for a regatta if stated in NoR and again at any time by the Race Committee.

C.3.4 **LONG DISTANCE RACING**

(a) The crew shall be able to re-right the boat after a capsize. They may be asked to demonstrate their ability to do so.

C.4 **PERSONAL EQUIPMENT**

C.4.1 **MANDATORY**

The **crew** shall wear a **personal floatation device** to the minimum standard EN393, ISO 12402-5 (CE 50 Newtons), USCG Type III, or AUS PFD 2.

C.4.2 **OPTIONAL**

(a) Trapeze harness for each member of **crew**

(b) All other **personal equipment**

C.5 **PORTABLE EQUIPMENT**

C.5.1 **FOR USE**

(a) **MANDATORY**

1. One righting line, minimum 4 metres long and 10 mm minimum diameter.
2. One magnetic steering compass.

(b) **OPTIONAL**

1. Magnetic compasses.
3. Electronic devices that provide timing, heading, and heading memory but which do not transmit or receive data.
4. When required by the Notice of Race for long distance courses, organisers may require further equipment, such as VHF, mobile phone, GPS or tracking devices, Emergency Positioning Indicating radio beacons (EPIRB) devices, knife, mirror, whistle, flares, flashlights, first aid set.
C.5.2 NOT FOR USE
  (a) MANDATORY
   (1) Towing line of 15 metres long and 6 mm minimum diameter.
  (b) OPTIONAL
   (1) When required in the Notice of Race, one paddle with minimum total length of 1000 mm. The paddle blade shall be minimum 140 mm wide and minimum 250 mm long.

C.6 BOAT
C.6.1 WEIGHT
  (a) PLATFORM
   (1) The minimum weight of the platform shall be 130 kg.
   (2) The platform shall be weighed assembled. It comprises: the assembled hulls, the hull appendages, the trampoline, tiller, tiller extension, mainsheet and jib sheet systems, compass(es), corrector weights and the righting line and all equipment and control lines normally bolted, screwed or fixed in a permanent manner on the boat.
  (b) BOAT READY TO SAIL
   (1) The total weight of the boat, ready to sail, shall not be less than 180 kg.
   (2) The weight of the boat ready to sail shall be the platform as in C.6.1(a) carrying the equipment normally used for navigation.
   (3) The weights of the platform (C.6.1(a)) and of the boat ready to sail (C.6.1(b)), each excluding corrector weights, and the certificate number shall be indelibly written by the measurer in line with Appendix B, Diagrams.

C.6.2 CORRECTOR WEIGHTS
  (a) A maximum of 7 kg of corrector weight is allowed to comply with both platform and ready to sail minimum weights.
  (b) Corrector weight shall be securely fastened to the outside on the starboard side of the forward beam or to the strut and shall be removable for checking.
  (c) Corrector weight shall be of metal.

C.6.3 FLOATATION
  (a) It is the responsibility of the skipper to ensure at all times the water tightness of the boat.
  (b) If there is any doubt regarding compliance with C.6.3 (a), an official measurer, race committee or jury may order a buoyancy test. If the buoyancy is deemed unsatisfactory, the matter shall be referred to the certification authority and the certificate may be withdrawn until satisfactory remedial measures have been taken.
C.7 HULLS
C.7.1 FITTINGS
   (a) Hatch covers, and drain bungs if fitted, shall be kept in place when sailing.

C.8 HULL APPENDAGES
C.8.1 FITTINGS
   (a) Rudder retention devices capable of retaining rudder in event of capsize.

C.8.2 LIMITATIONS
   (a) Only two daggerboards or centreboards and two rudders may be used during an event, except when a hull appendage has been lost or damaged beyond repair. Such replacement may only be made with the approval of the Race Committee.
      (1) The two daggerboards or centreboards shall be fitted in the daggerboard (centreboard) cases, one in each hull
      (2) The two rudders shall be hung on the transoms, one on each transom.
      (3) The board cases, the daggerboards and the rudders shall be positioned in the centre plane of the hulls, and the under water parts of the boards and of the rudders shall be symmetrical.

C.9 RIG
C.9.1 FITTINGS
   (a) Sail and mast adjustment fittings may be fitted.

C.9.2 USE
   (a) When stepped the mast datum point shall not be more than 120 mm above the top of the front beam.

C.9.3 LIMITATIONS
   (a) Only one set of spars shall be used during an event, except when lost or damaged beyond repair.
   (b) Replacement of damaged spars may only be made with the approval of the Race Committee.

C.9.4 BOOM
   (a) The boom, if fitted, may have fittings attached.

C.9.5 BOWSPRIT
   (a) The bowsprit shall be fixed in a fore and aft position and shall not be adjustable while sailing.
   (b) The bowsprit may have fittings attached.

C.9.6 STANDING RIGGING
   (a) It is NOT permitted to adjust: mast rake, tension of standing rigging, angle or length of spreaders or diamond wire tension.
   (b) The forestay shall be attached on the centreline of the boat.
   (c) Trapeze wires may have adjustable height.
C.9.7  RUNNING RIGGING
(a)  **Running rigging** shall be led outside the **mast spar**.
(b)  With the exception of C.9.6 (a), the way of leading **running rigging** is optional.

C.10  SAILS

C.10.1  LIMITATIONS
(a)  The **sail** plan shall consist of 1 **mainsail**, 1 jib, 1 spinnaker which shall be carried aboard. No sail shall be replaced during a regatta, except when a **sail** has been lost or damaged beyond repair, then only with permission of the Race Committee. The Race Committee shall then remove or cross out any event limitation mark attached to the replaced **sail**.
(b)  **Sails** shall not be altered in any way except as permitted by these **rules**.
(c)  Routine maintenance is permitted without re-measurement and re-certification.
(d)  Sails shall be allocated to crews with different weight categories according to C.3.2 (b).

C.10.2  MAINSAIL
(a)  IDENTIFICATION
   The national letters and sail numbers shall comply with the RRS Appendix G.
(b)  USE
   (1)  The **sail** shall be hoisted on a **halyard**. The arrangement shall permit hoisting and lowering of the **sail** whilst afloat.
   (2)  The **luff** bolt rope shall be in the **spar** groove.
   (3)  The **mainsail** may be loose footed.

C.10.3  JIB
(a)  USE
   (1)  The **sail** shall be set on the **forestay**.
   (2)  The **tack point** shall not be fixed below the apex of the bridle wire.

C.10.4  SPINNAKER
(a)  USE
   (1)  The **sail** shall be set between the **mast** and the **bowsprit**.

Section D - Hulls

D.1  PARTS
D.1.1  MANDATORY
(a)  Hull shells
(b)  Front beam
(c)  Rear beam
(d)  Trampoline
D.1.2 OPTIONAL
(a) Bulkheads
(b) Sub-decks
(c) Fittings

D.2 GENERAL
D.2.1 RULES
The hull shall comply with the rules in force at the time of initial certification.

D.2.2 CERTIFICATION
Only the controls, measurements and calculations made by a measurer recognized by the IF18CA, a MNA or ISAF are considered valid.

D.2.3 MODIFICATIONS, MAINTENANCE AND REPAIR
(a) Holes not bigger than necessary for the installation fittings and passage of lines may be made in the hull.
(b) Sealing strips of any suitable material for centreboard/daggerboard slots are permitted.
(b) Routine maintenance such as painting and polishing is permitted without re-measurement and re-certification, providing that the intention and the effect is to polish the hulls only.
(c) Each hull shall have at least one inspection hatch. All other fittings are optional.

D.2.4 IDENTIFICATION
(a) Hulls shall have a serial number.
(b) From 1st November 2009, all new hulls shall carry the ISAF Plaques permanently placed on the transoms or on the inside of the hulls just below the rear beam.

D.2.5 BUILDERS
(a) A licence is not required.

D.3 HULL SHELLS
D.3.1 MATERIALS
(a) The hull shells shall be built from polyester or vinylester resin, glass fibres, core of PVC or balsa or felt. The combination of wood-epoxy, injected plastic, which shall not be altered, other than locally for fittings, and passage of equipment and normal reinforcement. Epoxy glue is permitted for joining components. Every material that is not expressly permitted is prohibited.

D.4 BEAMS
D.4.1 MANDATORY
(a) Front Beam
(b) Rear beam
D.4.2 CONSTRUCTION
(a) The beams shall be made of extruded aluminium profiles of constant section.
(b) The curvature of the beams shall be limited to a maximum of 15 mm.
(c) The mast pivot on the front beam shall be fixed on the centreline of the boat.
(d) The front beam may have a strut and tie of optional material, excluding carbon.
(e) The rear beam may incorporate a mainsail traveller track.
(f) The front beam may incorporate a jib traveller track and/or a self tacking system, and sail adjustment fittings.
(g) A local reinforcement is permitted inside the main beam for the mast step.
(h) Local reinforcements are permitted inside the front beam and the rear beam for supporting fixing bolts.
(i) The mast step shall be in a fixed position
(j) The beams may accommodate adjustment fittings
(k) Any holes for fittings may only be as large as necessary to house the fittings.

D.5 TRAMPOLINE
D.5.1 MATERIALS
(a) The type of material used is optional; however, netting is not permitted.

D.5.2 CONSTRUCTION
(a) A single trampoline, which may be in separate sections, shall cover the area between the front beam and the rear beam.
(b) Fittings for the attachment of the trampoline are optional.
(c) A spinnaker bag is permitted.
(d) Storage bags and pouches are permitted.

D.6 ASSEMBLED HULLS
D.6.1 CONSTRUCTION
(a) The hulls shall be joined rigidly by a front beam and a rear beam.
(b) Non slip surfaces, built in or applied to the hulls, are allowed.

D.6.2 DIMENSIONS
(a) The maximum hull length shall be 5.52 m.
(b) The maximum boat beam shall be 2.60 m.

D.6.3 FITTINGS
(a) MANDATORY
(1) Shroud fittings attachments.
(2) Forestay bridle fittings attachments.
(3) Bowsprit fittings attachments.
(b) OPTIONAL
   (1) Fittings for the attachment of the trampoline.
   (2) Fittings for adjustment of sails and rig.
   (3) Foot loops, toe straps, trapeze gear, crew restraining line.
   (4) Fittings for rudders.
   (5) Centreboard/daggerboard retention/placement fittings.
   (6) Inspection hatches.

Section E – Hull Appendages

E.1 PARTS

E.1.1 MANDATORY
   (a) Rudders
   (b) Tillers
   (c) Tiller connecting bar
   (d) Rudder pins or pintles
   (e) Rudder gudgeons.

E.1.2 OPTIONAL
   (a) Centreboard
   (b) Daggerboard
   (c) Tiller extension.

E.2 GENERAL

E.2.1 RULES
   (a) Hull appendages shall comply with the Class rules in force at the time of certification.

E.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR
   (a) Hull appendages shall not be altered in any way except as permitted by these class rules.
   (b) Routine maintenance such as cleaning and sanding is permitted without re-measurement and re-certification. See RRS 53.

E.2.3 CERTIFICATION
   (a) A measurer recognized by the IF18CA, a MNA or ISAF shall certify hull appendages and shall number the certification mark.

E.2.3 MANUFACTURERS
   (a) Licence is not required to manufacture hull appendages.

E.3 CENTREBOARD/DAGGERBOARD

E.3.1 RULES
   (a) There shall be a maximum of one centreboard/daggerboard per hull.
   (b) The centreboard/daggerboard shall comply with the class rules in force at the time of the certification.
(c) A measurer recognized by the IF18CA, a MNA or ISAF shall certify centreboards/daggerboards and shall write the certificate number on the certification mark.

E.3.2 MATERIALS
(a) The centreboards/daggerboards may be made using epoxy resin, carbon, wood, glass fibre, foam plastics, resins, paints, glues and metal fastenings.

E.3.3 CONSTRUCTION
(a) The daggerboards/centreboards shall have no moving parts.
(b) The cross section of each centreboard/daggerboard shall be symmetrical about the hull centreplane.
(c) The centre of mass of the daggerboards shall be above 50% of the length of the board measured from the top of the daggerboard. Ballast or mass of whatever nature is not permitted.

E.3.4 WEIGHTS
(a) The maximum weight of each centreboard/daggerboard is 5.5 kg. The weight of each centreboard/daggerboard shall be noted on the measurement form.

E.3.5 FITTINGS
(a) Pivot bushings, height restraining or adjusting systems may be fitted.

E.4 RUDDER BLADE, RUDDER STOCK AND TILLER
E.4.1 RULES
(a) The rudder blade shall comply with the rules in force at the time of certification.

E.4.2 CERTIFICATION
(a) A measurer recognized by the IF18CA, a MNA or ISAF shall certify rudder blades and shall write the certificate number on the certification mark.

E.4.3 MATERIALS
(a) Rudder blade may be made using epoxy resin, carbon, wood, glass fibre, foam plastics, resins, paints, glues and metal fastenings.
(b) Materials for the rudder stock are optional, except carbon.
(c) Materials for the tiller extension are optional.
(d) The tiller cross bar shall be made of aluminium profile of constant section.
(e) The tiller cross bar may have reinforcement in the central fittings.
(f) The tiller cross bar may have reinforcement to support connection to tiller arms.

E.4.4 CONSTRUCTION
(a) The centre of mass of the rudders shall be above 50% of the length of the board measured from the top of the board. Ballast or mass use of whatever nature in not permitted.
(b) The cross section of each rudders shall be symmetrical about the hull centreplane.
E.4.5 FITTINGS
  (a) MANDATORY
      (1) 2 rudder fittings
  (b) OPTIONAL
      (1) 2 gudgeons.
      (2) 2 pins or pintles.
      (3) Pivoting and/or lowering systems.

E.4.6 WEIGHTS
  (a) The minimum weight of each rudder assembly comprising blade, stock
      with fittings and tiller is 3 kg. For rudders built before 1st January 1996
      corrector weights may be added to achieve the minimum weight. The
      controlled weight shall be noted on the measurement form.

Section F - Rig

F.1 PARTS
F.1.1 MANDATORY
  (a) Mast
  (b) Standing rigging
  (c) Running rigging
  (d) Bowsprit

F.1.2 OPTIONAL
  (a) Boom

F.2 GENERAL

F.2.1 RULES
  (a) The spars and their fittings shall comply with the rules in force at the time
      of certification of the spar.
  (b) The standing and running rigging shall comply with the Class Rules.
  (c) The boom (if fitted), bowsprit, standing and all running rigging shall
      comply with the Class rules.

F.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR
  (a) Spars shall not be altered in any way except as permitted by these Class
      Rules.
  (b) Routine maintenance such as cleaning and minor repairs is permitted
      without re-measurement and re-certification.

F.2.3 CERTIFICATION
  (a) A measurer recognized by the IF18CA, a MNA or ISAF shall certify
      spars and shall write the certificate number on the certification mark.
  (b) Certification of standing and running rigging, bowsprit and boom is not
      required.
  (c) Each mast shall have a certification mark on the starboard side.
F.2.4 MANUFACTURER
(a) Licence is not required to manufacture spars.

F.2.5 DEFINITIONS
(a) MAST DATUM POINT
The mast datum point is located at the front edge of the mast spar, on the longitudinal axis, on the lower end of the profile. See Appendix B.

F.2.5 DIMENSIONS
(a) The distance between the top of the front beam and the mast datum point shall not exceed 120mm.

F.3 MAST
F.3.1 CONSTRUCTION
(a) The mast extrusion shall be made of aluminium and shall be of constant section throughout its length.
(b) The mast shall have one fixed sail groove, which shall be integral with the mast spar and shall be of the same material.
(c) The mast shall have one masthead fitting, which shall include the mainsail sheave and locking device.
(d) The mast shall have heel fitting attached.
(e) The mast pivot shall be fixed on the centreline of the front beam.
(f) Forestay, diamond wires and shroud tension/rake adjustment devices or fittings are permitted.

F.3.2 DIMENSIONS
(a) The mast shall be watertight from 450 mm above the mast datum point upwards.

| Mast spar circumference | 385 mm |
| Upper point height      | 8980 mm |
| Shroud Height           | 6750 mm |
| Spinnaker hoist height  | 8150 mm |

F.3.3 FITTINGS
(a) MATERIALS
(1) Carbon fibre may be used in the construction of fittings.

(b) MANDATORY
(1) One masthead fitting which shall include mainsail halyard sheave and locking device.
(2) Heel fitting.
(3) Hounds fittings.

(c) OPTIONAL
(1) Pair of spreader bars and fittings.
(2) Diamond stay attachment and adjustment fittings.
(3) Spinnaker halyard guide
(4) Spinnaker halyard block and attachments
(5) Gooseneck fittings
(6) Mast rotation control fittings
(7) Mast may have reinforcement at fittings points
(8) Cunningham downhaul fittings

F.4 BOOM
F.4.1 MATERIALS
(a) The boom, if fitted, shall be made of extruded aluminium of constant section

F.4.2 CONSTRUCTION
(a) The boom extrusion may include a fixed sail groove or track which may or may not be integral with the boom but shall be of the same material.

F.4.3 FITTINGS
(a) Fittings are optional.

F.5 BOWSPRIT
F.5.1 RULES
(a) The bowsprit shall be on the longitudinal centreline of the boat.
(b) The bowsprit shall be attached to the front beam.

F.5.2 MATERIALS
(a) The bowsprit shall be made of aluminium of constant section.

F.5.3 CONSTRUCTION
(a) The bowsprit shall have an end cap that is smooth, rounded and blunt.
(b) The bowsprit may be fitted with a spinnaker retrieval system. This system may not be of carbon fibre on boats certified after 1 January 2007.

F.5.4 FITTINGS
(a) MANDATORY
   (1) Attachment points to hulls.
(b) OPTIONAL
   (1) Adjustment fittings.
   (2) Wind indicator(s).

F.5.5 DIMENSIONS
(a) The length of the bowsprit shall not exceed the distance from the centre of the front beam to a vertical line touching the most forward part of the hull plus 800 mm, with the bowsprit measured when horizontal.

F.6 STANDING RIGGING
F.6.1 MATERIALS
(a) The standing rigging shall be of stainless steel.
(b) Fittings may be made from or include carbon fibre in their construction.
F.6.2 CONSTRUCTION
   (a) MANDATORY
      (1) A forestay and forestay bridles of 1 x 19 or 1 x 7 stranded wire of minimum diameter of 3mm.
      (2) Shrouds of 1 x 19 or 1 x 7 stranded wire of minimum diameter of 3mm.
      (3) Trapeze wires of stranded wire and minimum diameter of 2.5mm.
      (4) Dyform® or similar construction is prohibited.
      (5) The bowsprit bridles may be of rope of minimum diameter of 3mm.
   (b) OPTIONAL
      (1) A pair of diamond wires

F.7 RUNNING RIGGING
F.7.1 MATERIALS
   (a) Materials are optional.
F.7.2 CONSTRUCTION
   (a) MANDATORY
      (1) Mainsail halyard.
      (2) Mainsail sheet.
      (3) Jib halyard.
      (4) Jib sheet.
      (5) Spinnaker halyard.
      (6) Spinnaker sheets.
      (7) Bowsprit setting and retraction lines.
   (b) OPTIONAL
      (1) Rig adjustments
      (2) Sail adjustments

Section G – Sails
G.1 PARTS
G.1.1 MANDATORY
   (a) Mainsail
   (b) Jib
   (c) Spinnaker

G.2 GENERAL
G.2.1 RULES
   (a) Sails shall comply with the rules in force at the time of certification.
G.2.2 CERTIFICATION
   (a) A measurer recognized by the IF18CA, a MNA or ISAF shall certify all sails.
G.2.3 DEFINITIONS

The sails corresponding to the different weight categories of crew (C.3.3) shall be identified as follows:

(1) Large Jib with a maximum area of 4.15 m²
(2) Small Jib with a maximum area of 3.45 m²
(3) Large Spinnaker with a maximum area of 21 m²
(4) Small Spinnaker with a maximum area of 19 m²

G.2.4 SAILMAKER

(a) Licence is not required to manufacture sails.

(b) From 1st July 2007, the material of the body of the sail shall be indelibly marked, plaque or label, near the tack point by the sail maker together with the year date, the material from which the sail was made and a serial number.

G.3 MAINSAIL

G.3.1 IDENTIFICATION

(a) The Class insignia shall conform with the dimensions and requirements as detailed and be placed in accordance with the diagram contained in Appendix B.

G.3.2 MATERIALS

(a) The ply fibres shall consist only of polyester materials as detailed in the Mainsail Sailcloth Appendix.

(b) Stiffening shall not incorporate carbon fibre and may consist of:
   (1) Corner boards
   (2) Battens

(c) Sail reinforcement shall comply with Mainsail Sailcloth Appendix.

G.3.4 CONSTRUCTION

(a) The construction shall be soft sail, single-ply sail.

(b) The body of the sail shall consist of the same woven and/or laminated ply throughout with the exception of the window which may be different.

(c) The number of batten pockets is optional.

(e) The following are permitted: stitching, glues, tapes, bolt ropes, corner eyes, headboard with fixings, Cunningham eye or pulley, reefing points, battens, batten pocket patches, batten pocket elastic, batten pocket end caps, mast and boom slides, leech line with cleat, one window, tell tales, sail shape indicator stripes and items as permitted or prescribed by other applicable rules.

(f) From 4 March 2008, a window of a minimum of 1 m² shall be placed in the lower third of the sail. This window shall comply with the Sailcloth Appendix.
G.3.5 DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sail area (including the side area of the mast spar)</strong></td>
<td>-</td>
<td>17 m²</td>
</tr>
<tr>
<td><strong>Top width</strong></td>
<td>-</td>
<td>1000 mm</td>
</tr>
<tr>
<td><strong>Upper width at upper leech point from head point</strong></td>
<td>-</td>
<td>1290 mm</td>
</tr>
<tr>
<td><strong>Batten pocket width:</strong></td>
<td>-</td>
<td>25 mm</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>30 mm</td>
</tr>
<tr>
<td>The angle between the luff and the head</td>
<td>-</td>
<td>90°</td>
</tr>
<tr>
<td><strong>Window area (from March 2008) to be placed in lower third of sail</strong></td>
<td>1.0sqm</td>
<td></td>
</tr>
</tbody>
</table>

G.4 JIB

G.4.1 MATERIALS

(a) The ply fibres shall consist only of polyester materials as detailed in Jib Sailcloth Appendix.

(b) Stiffening shall not incorporate carbon and may consist of:

(1) Corner boards

(2) Battens

(c) Sail reinforcement shall comply with Jib Sailcloth Appendix.

G.4.2 CONSTRUCTION

(a) The construction shall be: soft sail, single-ply sail.

(b) The body of the sail shall comply with Sailcloth Appendix.

(c) The jib may have either:

(1) A maximum of four batten pockets, no external part of which exceeding 250 mm from the leech.

OR:

(2) From 1st March 2007, a maximum of three full length batten pockets, which shall have no moving parts and be made of glass fibre.

(d) The leech shall not be convex.

(e) The following are permitted: stitching, glues, tapes, corner eyes, headboard with fixings, Cunningham eye or pulley, zips, Velcro and sleeve luffs, battens, batten pocket patches, batten pocket elastic, batten pocket end caps, leech line with cleat, tell tales, one window and items as permitted or prescribed by other applicable rules.

(f) From 4 March 2008, a window of a minimum of 0.3 m² shall be placed in the lower third of the sail. This window shall comply with the Sailcloth Appendix.
### G.4.3 DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sail area (small jib)</td>
<td></td>
<td>3.45 m²</td>
</tr>
<tr>
<td>Sail area (large Jib)</td>
<td></td>
<td>4.15 m²</td>
</tr>
<tr>
<td>Top width</td>
<td></td>
<td>50 mm</td>
</tr>
<tr>
<td>Batten pocket width:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>outside</td>
<td></td>
<td>25 mm</td>
</tr>
<tr>
<td>Window area</td>
<td>0.3 m²</td>
<td></td>
</tr>
</tbody>
</table>

### G.5 SPINNAKER

#### G.5.1 MATERIALS

(a) The ply fibres shall consist only of nylon or polyester materials as detailed in Spinnaker Sailcloth Appendix.

(b) **Sail reinforcement** shall comply with Spinnaker Sailcloth Appendix.

#### G.5.2 CONSTRUCTION

(a) The construction shall be: soft sail, single ply sail.

(b) **Primary and secondary reinforcement** is permitted at the sail corners and the recovery points, and have to comply with the Sailcloth Appendix.

(d) The following are permitted: stitching, glues, tapes, corner eyes, recovery line eyes, tell tales, leech lines and items as permitted or prescribed by other applicable rules.

(e) The area and the dimensions of the spinnaker (SL1, SL2, SMG, SF) shall be written in an indelible manner near the starboard tack.

#### G.5.3 DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sail area (Small Spinnaker)</td>
<td></td>
<td>19 m²</td>
</tr>
<tr>
<td>Sail area (Large Spinnaker)</td>
<td></td>
<td>21 m²</td>
</tr>
<tr>
<td>Ratio of half width / foot length</td>
<td>75%</td>
<td></td>
</tr>
</tbody>
</table>

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PART III – APPENDICES

APPENDIX A. CLOTH LIST (ISSUED MARCH 2010)

APPENDIX B. CLASS DRAWINGS

APPENDIX C. CHAMPIONSHIP RULES (TO BE PRESENTED TO IF18CA COUNCIL IN DECEMBER 2009.)
C.6 BOAT
C.6.1 WEIGHT
(b) BOAT READY TO SAIL
(3) Identification
D.4 BEAMS
D.4.2 CONSTRUCTION
D.4.2 (b) The curvature of the beams.

D.4 BEAMS
D.4.2 CONSTRUCTION
D.4.2 (c) The mast pivot on the front beam.
D.6 ASSEMBLED HULLS
D.6.2 DIMENSIONS
D.6.2 (a) maximum hull length.
D.6.2 (b) maximum boat beam.
IDENTIFICATION

National Letters
NAT
TAN
123
321

Sail Numbers

MainSail 17.00
I.S.A.F. CLASS RECOGNISED

Jib 3.45
I.S.A.F. CLASS RECOGNISED

Jib 4.15
I.S.A.F. CLASS RECOGNISED

FORMULA 18 CATAMARAN
I.S.A.F. CLASS RECOGNISED

Formula 18 CATAMARAN
I.S.A.F. CLASS RECOGNISED

SPI 19.00
I.S.A.F. CLASS RECOGNISED

SPI 21.00
I.S.A.F. CLASS RECOGNISED

IDENTIFICATION

International Association
National Letters
Sail Numbers

RUDDER 1
International Association
National Letters
Sail Numbers

DAGGERBOARD 1
International Association
National Letters
Sail Numbers

MainSail 17.00
International Association
National Letters
Sail Numbers

Jib 4.15
International Association
National Letters
Sail Numbers

Jib 3.45
International Association
National Letters
Sail Numbers

Mast
International Association
National Letters
Sail Numbers

PCB/06/01
F.2 GENERAL. F.2.5 (a) Mast Datum Point
F.3 MAST. F.3.2 DIMENSIONS.
F.3 MAST
F.3.2 DIMENSIONS

Bottom of Extrusion
120 mm. maxi.

Bottom Mast Casting
120 mm. maxi.

Bottom of Extrusion
120 mm. maxi.

120 mm. maxi.

9100 mm. maxi.

9100 mm. maxi.

9100 mm. maxi.
F.3 MAST
F.3.2 DIMENSIONS
MAST SPAR CIRCUMFERENCE

385 mm Maximum
F.3 MAST
F.3.2 DIMENSIONS SPINNAKER HOIST HEIGHT

8150 mm maxi.
F.5 BOWSPRIT
F.5.5 DIMENSIONS
F.5.5 (a) The maximum length.
G.3 MAINSAIL
G.3.5 DIMENSIONS

H1 = 1000 mm. maximum

1500 mm

1290 mm. maximum

Boltrope

Aft Head Point cannot be over the perpendicular to the Luff.
MEASUREMENT PROCEDURE (Mainsail).
Three battens with a maximum width of 25 mm.
MEASUREMENT PROCEDURE (Spinnaker).
SAIL CORNER MEASUREMENT POINTS AND SAIL EDGES

Head Point

Tack Point

Aft Head Point

Clew Point

Sail Edges