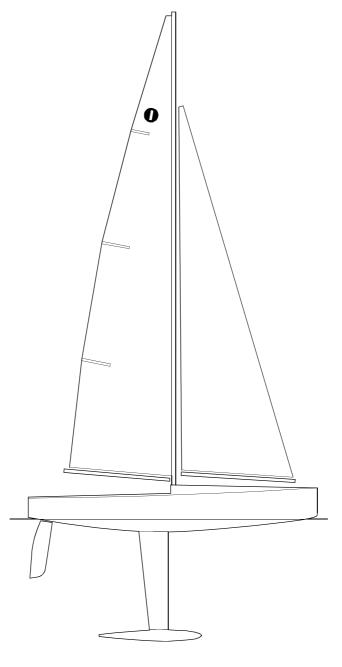
ONE METRE CLASS RULES 2009



The One Metre class was developed by the ISAF–RSD Permanent Committee and was adopted as an international class in 1988

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Introduction

One Metre hulls, hull appendages, rigs and sails may be manufactured by any amateur or professional manufacturer without any requirement for a manufacturing license.

The rules in Part II and III are closed class rules which means that anything not specifically permitted is prohibited.

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, Part I of the ERS and in the Racing Rules of Sailing.

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

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.2 ABBREVIATIONS

A.2.1 **ISAF International Sailing Federation** ISAF-RSD ISAF - Radio Sailing Division MNA **ISAF** Member National Authority

> DMISAF-RSD Member

International One Metre Class Association **ICA**

NCA National Class Association **ERS Equipment Rules of Sailing RRS** Racing Rules of Sailing

A.3 AUTHORITIES AND RESPONSIBILITIES

- A.3.1Where one does not exist, the functions of the ICA, as specified in these class rules, shall be carried out by the ISAF–RSD.
- A.3.2 The international authority of the class is the ISAF-RSD which shall cooperate with the ICA in all matters concerning these class rules.
- No legal responsibility with respect to these class rules, or accuracy of A.3.3 measurement, rests with:

the ISAF

the ISAF-RSD

the MNA

the DM

the ICA

any NCA

the certification authority

an official measurer

No claim arising from these **class rules** can be entertained.

A.3.4 Notwithstanding anything contained herein, the certification authority has the authority to withdraw a certificate and shall do so on the request of the ISAF-RSD.

A.4 ADMINISTRATION OF THE CLASS

- A.4.1 The ISAF–RSD has delegated its administrative functions of the class to DMs. A DM may delegate part or all of its functions, as stated in these **class rules**, to an NCA.
- A.4.2 In countries where there is no DM, or the DM does not wish to administer the class, its administrative functions as stated in these **class rules** shall be carried out by the ICA which may delegate the administration to an NCA.

A.5 ISAF RULES

- A.5.1 These **class rules** shall be read in conjunction with the 2009-2012 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 CHAMPIONSHIP RULES

A.6.1 The Class Championship Rules shall apply at World and Continental Championships.

A.7 SAILING INSTRUCTIONS

- A.7.1 These **class rules** shall not be varied by sailing instructions except as provided by A.7.2.
- A.7.2 At World or Continental Championships the sailing instructions may vary these **class rules** only with the agreement of the ICA.

A.8 CLASS RULES AMENDMENTS

A.8.1 Amendments to these **class rules** shall be proposed by the ICA and are subject to the approval of ISAF–RSD.

A.9 CLASS RULES INTERPRETATIONS

A.9.1 GENERAL

Interpretation of **class rules**, except as provided by A.9.2, shall be made in accordance with the ISAF–RSD Regulations.

A.9.2 AT AN EVENT

Any interpretation of **class rules** required at an event may be made by an international jury constituted in accordance with the RRS. Such interpretation shall only be valid during the event and the organising authority shall, as soon as practical after the event, inform the ISAF–RSD, the DM and the ICA.

A.10 HULL REGISTRATION NUMBER

A.10.1 Registration numbers shall be issued by the **certification authority**.

- A.10.2 Registration numbers shall be issued in consecutive order starting at "1".
- A.10.3 Each hull shall have a unique registration number which shall include the national letters and the certification authority's sequential registration number. Under no circumstances may a registration number be used on a hull other than the **hull** on which it was first used.

A.11 CERTIFICATION

- A.11.1 For a **hull** not previously **certified**, all items required by the measurement form(s) to be measured shall be measured by an official measurer and the details entered onto the form(s).
- A.11.2 The measurement form(s), and **certification** fee if required, shall be sent to the certification authority in the country where the hull is to be registered within 4 weeks after completion of measurement.
- A.11.3 Upon receipt of a satisfactorily completed measurement form(s) and certification fee if required within the 4 week time limit, the certification authority may issue a certificate.
- A.11.4 The **certification authority** shall retain the original measurement form(s), which shall be transferred to the new certification authority upon request if the **hull** is exported.

A.12 **VALIDITY OF CERTIFICATE**

- A.12.1 A **certificate** becomes invalid upon:
 - (a) a change of ownership,
 - (b) withdrawal by the **certification authority**,
 - (c) the issue of another **certificate**.

A.13 COMPLIANCE WITH CLASS RULES

- A.13.1 A **boat** ceases to comply with the **class rules** upon:
 - (a) use of equipment that does not comply with limitations in the **class rules**,
 - (b) use of equipment that does not comply, or that causes the **boat** not to comply, with limitations recorded on the certificate,
 - (c) alteration or repair of equipment required by the measurement form(s) to be measured, except where permitted by the class rules,
 - (d) a change of class rules that causes equipment in use to cease to be permitted, except where the equipment may comply with the class rules in force at the time of its initial certification control.

A.14 **RE-CERTIFICATION**

A.14.1 A hull may be issued with a new certificate, showing dates of initial and new certification control as applicable:

(a) WHEN A CERTIFICATE BECOMES INVALID UPON CHANGE OF OWNERSHIP

and the new owner applies to the **certification authority** in the country where the **hull** is to be registered. The application shall include the old **certificate** and re-**certification** fee if required. In the case of an imported **hull** the **certification authority** shall request the measurement form(s) from the previous **certification authority** and a new hull registration number shall be issued,

(b) WHEN A CERTIFICATE HAS BEEN WITHDRAWN, OR WHEN THE CERTIFICATE AND MEASUREMENT FORM(S) CANNOT BE LOCATED

and **certification control** as required for initial **certification** has been undertaken.

- A.14.2 A **boat** that has ceased to comply with the **class rules** may be brought into compliance:
 - (a) WHEN THE LIMITATIONS AFFECTING THE EQUIPMENT ARE IN THE CLASS RULES

by carrying out certification control of affected equipment,

(b) WHEN THE LIMITATIONS AFFECTING THE EQUIPMENT ARE ON THE CERTIFICATE

by carrying out **certification control** of affected equipment as required for initial **certification**.

Section B – Boat Eligibility

To be eligible to take part in racing, the rules in this section shall be complied with.

B.1 CERTIFICATE

- B.1.1 The **hull** shall have a valid **certificate**.
- B.1.2 A **certificate** issued prior to the effective date of these **class rules** remains valid until any of the criteria in A.12.1 is met.

B.2 CLASS ASSOCIATION STICKER

B.2.1 A valid class association sticker, if required by the NCA or the ICA, shall be affixed to the **hull** in a conspicuous position.

PART II – REQUIREMENTS AND LIMITATIONS

The **crew** and the **boat** shall comply with the rules in Part II when *racing*. Measurement to check conformity with rules of Section C is not part of **certification control**.

The rules in Part II are closed class rules. Measurement 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**

The following ERS rules shall not apply:

- (a) B.7.1 Mainsail, Foresail and Mizzen Booms set on a Mast
- (b) B.7.2 Headsail Booms.

C.2 CREW

C.2.1**LIMITATIONS**

The **crew** shall consist of one person.

C.3 ADVERTISING

C.3.1LIMITATIONS

The boat shall display only such advertising as permitted by the ISAF Advertising Code, Category C.

C.4 BOAT

C.4.1 **DIMENSIONS**

With the **boat** floating in fresh water:

minimum	maximum
Draught 370 mm	420 mm
The depth of hull from waterline	60 mm
Hull length	1000 mm

C.4.2WEIGHT

minimum	maximum
The weight of boat in dry condition excluding wind	
indicator if used	4000 g

C.4.3CORRECTOR WEIGHT(S)

Corrector weight(s) to achieve compliance with C.4.2, if used, shall be fixed

in/on the hull and not be altered or moved during an event.

C.4.4 WATER

Water shall not be used to trim the **boat** and it may be removed at any time.

C.5 HULL

C.5.1 IDENTIFICATION

The hull registration number shall be displayed on the external surface of the **hull** shell or deck clearly and legibly with a minimum height of 20 mm.

C.5.2 MAINTENANCE

Routine maintenance to the **hull** such as removing and adding fittings and remote control equipment, replacing **hull** patches, painting, polishing, smoothing etc., is permitted without re-measurement and re-**certification** provided the compliance with D.2 is not affected.

C.5.3 REMOTE CONTROL EQUIPMENT

USE

- (a) The rudder control unit shall control the **rudder** only.
- (b) The sheet control unit shall control the mainsail sheet and headsail sheet only.
- (c) Except for control unit positioning and radio link information, no radio transmissions from the **boat** shall be made.
- (d) During an event remote control and related equipment if temporarily removed and or replaced:
 - (1) shall be refitted in the same position.
 - (2) shall be replaced by equipment of similar weight.

C.6 HULL APPENDAGES

C.6.1 MAINTENANCE

The **hull appendages** may be altered after **certification control**, without undergoing new **certification control**, provided compliance with E.3 is not affected.

C.6.2 LIMITATIONS

Except when a **hull appendage** has been lost or damaged beyond repair, only one **keel** and one **rudder** shall be used during an event. Replacement may be made only with the approval of the race committee. Unless the **hull appendage** has been lost, the race committee shall remove or cancel any **Event Limitation Mark** attached to the **hull appendage** that has been replaced.

C.6.3 USE

(a) The **keel** shall not move or rotate relative to the **hull**, except by flexing.

- (b) The **hull appendages** shall not project outboard of the **hull**.
- (c) If removed:
 - (1) The **keel** shall be refitted in the same attitude and position in the hull.
 - (2) Parts of the keel shall be refitted in the same attitude and position relative to the **keel**.
 - (3) The **rudder** shall be refitted in the same attitude and position relative to the hull.

C.6.4WEIGHTS

minimum maximum

C.7 RIG

C.7.1**LIMITATIONS**

Except when an item has been lost or damaged beyond repair, one mast, one mainsail **boom** and one headsail **boom**, for each of the three **rigs**, may be used during an event. Replacement may be made only with the approval of the race committee. Unless the spar is lost, the race committee shall remove or cancel any Event Limitation Mark attached to the spar that has been replaced.

C.7.2**USE**

The **rig** shall not project beyond the fore and aft ends of the **hull**.

C.7.3ADDED WEIGHTS

- (a) Weights of any material may be positioned in and/or on a mast **spar** below the **lower point**. Weights of density greater than 8.000 kg/m³ may be positioned in and/or on a mast spar above the lower point.
- (b) Such weights may be removed or added at any time subject to C.4.1 and C.4.2.

C.7.4**MAST**

(a) DIMENSIONS

minimum maximum

Lower point to deck limit mark

as defined in D.1.5 60 mm 100 mm

Within these limits, the variation in height of

lower point for each **rig** ± 5 mm

Mast spar curvature between lower point and

upper point unrestricted

(b) USE

The **spar** stepping position and wind indicator position are optional.

C.7.5 BOOMS

DIMENSIONS

minimum maximum

Boom spar curvature measured between points on

C.7.6 STANDING RIGGING

USE

The headsail boom swivel shall be attached to the **hull** approximately on the **hull** centreplane. The alignment of the swivel between the **hull** and the headsail **boom** shall be controlled only by the **rigging** tension.

C.7.7 RUNNING RIGGING

USE

- (a) The mainsail sheet and the headsail sheet may be worked by a sheet control line attached to the sheet control unit.
- (b) The upper end of any headsail boom topping lift shall be attached to the headsail halyard and/or stay, or their mast **spar** fitting(s).
- (c) A headsail boom topping lift restraint line attached to, or passing around, the topping lift may be attached to and/or passed around any or all of the following: topping lift; headsail; headsail halyard; headsail stay; headsail boom.
- (d) A mainsail **tack** control line may be passed around or through the mast **spar**, the mainsail boom **spar** and/or their fittings.

C.8 SAILS

C.8.1 MAINTENANCE

Routine maintenance such as replacement of battens and patching over damaged areas is permitted without re-measurement and re-**certification**.

C.8.2 LIMITATIONS

Except when a **sail** has been lost or damaged beyond repair, no more than one mainsail and one headsail, for each **rig**, shall be used during an event. Replacement may be made only with the approval of the race committee. Unless the **sail** is lost, the race committee shall remove or cancel any **Event Limitation Mark** attached to the **sail** that has been replaced.

C.8.3 IDENTIFICATION

Identification shall comply with the RRS. Sails certified before 1st January 2005 shall comply with the sail identification rules in force at that time or at the time of initial certification.

C.8.4 USE

(a) GENERAL

(1) A sail of one rig shall not be used with another rig.

(2) A sail may not be used alone, except where the other sail of that rig has been lost or damaged during the race.

(b) MAINSAIL

- (1) The tack point shall not be set more than 25 mm forward of the forward end of the boom spar and the clew point shall not be set more than 25 mm aft of the aft end of the boom spar.
- (2) Any **luff** bolt rope or **luff** slides shall be set in a mast **spar** track.
- (3) **Luff tabling** may envelop a mast **spar** jackstay.

(c) HEADSAIL

- (1) A line taken through the **tack point** and the **head point** shall cut the forward face of the mast spar lower than the lower edge of the headsail stay **limit mark** at the fore side of the **spar** when the boom spar is on the centreplane of the hull.
- (2) The tack point shall not be set more than 25 mm forward of the forward end of the boom spar and the clew point shall not be set more than 25 mm aft of the aft end of the boom spar.
- (3) **Luff tabling** may envelop the headsail stay.
- (4) Any **luff** slides shall be set on the headsail stay.

Section D – Hull

D.1 GENERAL

D.1.1 RULES

The hull shall either comply with the class rules in force at the time of its initial **certification control** or comply with the current **class rules**.

D.1.2 **CERTIFICATION**

See rule A.11.

D.1.3 **BUILDERS**

- (a) No building licence is required for **hulls** built in accordance with D.2.1.
- (b) A building licence may be granted to commercial builders who wish to use mass production methods to lower the cost of hulls, but which do not comply with D.2.1. Such licence shall be based on a building specification approved by the ICA and the ISAF-RSD and a contract between the ISAF-RSD and the builder.

D.1.4 **IDENTIFICATION**

The hull registration number shall be marked in an easily visible location on a non-removable part of the hull excluding fittings and corrector weights by any of the following means: painting on, engraving in, bonding in, moulding in.

D.1.5 DECK LIMIT MARK

The deck **limit mark** shall be displayed on the centreplane of the **hull** near to

the mast position. It shall be a minimum of 5 mm in diameter.

D.2 HULL

D.2.1 MATERIALS

- (a) Subject to (b) and (c), the **hull**, excluding fittings and remote control equipment but including any supports and containers for such items, shall be made of and joined using one or more of the following materials:
 - (1) metal,
 - (2) wood; wood based products containing only permitted materials,
 - (3) glass fibre reinforced plastic,
 - (4) adhesive,
 - (5) varnish; paint,
 - (6) film covering materials which may be fibre reinforced,
 - (7) elastomeric material,
 - (8) thermoplastic, which may be moulded, containing only permitted materials.
- (b) In glass fibre reinforced plastic:
 - (1) an external gel coat is optional and may be pigmented,
 - (2) an external paint coating is optional,
 - (3) the laminating resin shall be unpigmented,
 - (4) the reinforcement shall be glass fibre in any of the following forms: roving, tape, chopped strand mat and woven cloth,
 - (5) the interior shall be un-coated to permit non-destructive examination for verification of the material content.
- (c) With the exception of elastomeric materials, materials shall not be: expanded, foamed, honeycombed.
- (d) Unrestricted by (a) and (b):
 - (1) a builder's mark may be applied,
 - (2) the hull registration number shall be applied.
 - (3) A hull made with Texalium and with a date of initial fundamental measurement, prior to 1 September 2004 may be certified.

D.2.2 CONSTRUCTION

Construction is unrestricted subject to the following:

- (a) The **hull** shall be a monohull.
- (b) Except for trunking for the **keel** and **rudder**, the **hull** shall not have:
 - (1) voids in the waterplane and/or the underwater profile,
 - (2) hollows in the plan view and/or the underwater profile that exceed 3 mm.
 - (3) transverse hollows in the undersurface of the **hull** that exceed 3 mm when tested parallel to the waterplane as in figure H.2.
- (c) The forward 10 mm of the **hull** shall be of elastomeric material.
- (d) The **rudder** shall be attached to the **hull** aft of where the **keel** is attached.

D.2.3**FITTINGS**

Fittings are unrestricted except that:

- (a) Fittings that can contribute to the stiffness and/or strength and/or watertight integrity of the **hull** shall be of materials permitted by D.2.1.
- (b) Ball and/or roller bearings may be used for: sheet control line blocks, mainsail boom sheet blocks, headsail boom sheet blocks.
- (c) Fittings shall not project outboard of the **hull** shell or deck.

REMOTE CONTROL EQUIPMENT D.2.4

- (a) The following is permitted:
 - (1) One or more receivers.
 - (2) One rudder control unit.
 - (3) One sheet control unit.
 - (4) Battery cells assembled in one or more packs.
 - (5) Electric cables, connectors and switches.
 - (6) One device to indicate the battery voltage. This device may also be included in any of the previous items (1) to (5).
- (b) The rudder control unit and the sheet control unit may contain ball and/or roller bearings.
- (c) Remote control equipment may be fastened using hook and loop fasteners and/or the materials listed in D.2.1(a).

Section E – Hull Appendages

E.1 PARTS

E.1.1 **MANDATORY**

- (a) **Keel**, which may comprise a **fin** and a **bulb**.
- (b) Rudder

E.2 GENERAL

E.2.1**RULES**

Hull appendages shall comply with the current class rules.

E.2.2 **BUILDERS**

No licence is required.

E.3 KEEL AND RUDDER

E.3.1 **MATERIALS**

Materials shall not be of density higher than lead (11.300 kg/m³).

E.3.2 CONSTRUCTION

Construction is unrestricted subject to the following:

- (a) The **keel** and **rudder** shall be removable from the **hull**.
- (b) The **keel** and **rudder** shall not
 - (1) be connected,
 - (2) be articulated,
 - (3) have openings through which water could flow when in use.

E.4 KEEL

E.4.1 **DIMENSIONS**

minimum maximum The largest transverse dimension except for the

Section F - Rig

F.1 PARTS

F.1.1 **MANDATORY**

- (a) Mast.
- (b) Mainsail boom.
- (c) Headsail boom.
- (d) Standing rigging.
- (e) Running rigging.
- (f) Fittings.

F.2 GENERAL

F.2.1 **RULES**

Rigs shall comply with the current class rules.

F.2.2 **MANUFACTURERS**

No licence is required.

F.2.3 LIMITATIONS

The function of items shall be limited to what is normally provided by items of their type.

F.2.4 **CONSTRUCTION**

- (a) Fittings and/or control lines may be combined provided their function is not extended beyond what is permitted.
- (b) The position of parts, and the length and tension of **rigging**, may be adjustable unless otherwise restricted.
- (c) Ball and/or roller bearings may be used for: kicking strap fitting; gooseneck; mainsail boom sheet blocks; headsail boom sheet blocks; headsail boom swivel.

F.3 MAST

F.3.1 **MATERIALS**

- (a) The **spar** shall be aluminium alloy of 2024, 6005, 6061, 6063, 6082 or 7075 grade, or wood.
- (b) Other permitted materials in the **spar** are: adhesive; paint; powder coat; varnish; wax. An aluminium alloy spar may be anodised.

F.3.2 CONSTRUCTION

- (a) A mast stub arrangement is permitted and, if used, shall be taken to be part of the mast.
- (b) Between the **lower point** and the **upper point** the **spar** section shall be:
 - (1) of circular outer shape,
 - (2) constant

within the variations permitted by F.3.4 except for the following permitted items:

an internal sail track,

local cutaways for the insertion of a bolt rope or slides, openings for fittings and/or rigging, internal and/or external spar joiners.

- (c) **Limit marks** may be applied by the following means:
 - (1) paint,
 - (2) self adhesive tape,
 - (3) fittings.

FITTINGS F.3.3

- (a) MANDATORY
 - (1) Mainsail halyard fitting or opening.
 - (2) Shroud fitting(s) or opening(s).
 - (3) Gooseneck.
 - (4) Kicking strap fitting.

(b) OPTIONAL

- (1) Wind indicator and/or its fitting.
- (2) Backstay crane and its fitting.
- (3) Headsail stay fitting or opening.
- (4) Headsail halyard fitting or opening.
- (5) Pair of **spreaders** and their fittings(s) and/or opening(s).
- (6) Mast spar rings and/or loops to attach mainsail luff to the spar.
- (7) Mainsail jackstay fittings.
- (8) Mainsail **tack** fitting(s).
- (9) Mast strut and its fitting.
- (10) Checkstay fittings(s).
- (11) Deck fitting.
- (12) Heel fitting with or without mast jack.

(13) Added weights.

(c) CONSTRUCTION

- (1) A mainsail halyard fitting may include one part that rotates with the **sail** about an axis located inside or outside the **spar** section.
- (2) The mainsail boom **spar** and the kicking strap pivot points shall be aft of the mast **spar** in the regions adjacent to these points.

F.3.4 DIMENSIONS

maximum minimum Lower point to upper point Lower edge of headsail stay limit mark at fore side of spar to upper point Spar between lower point and upper point ignoring features permitted by F.3.2(b): difference between largest and smallest diameter 0.3 mm for an aluminium spar, the difference between largest and smallest value along the spar of

Total length of local cutaways between **lower point**

F.4 BOOMS

F.4.1 MATERIALS

- (a) **Spars** shall be aluminium alloy of 2024, 6005, 6061, 6063, 6082, 7075, 7068 or 7178 grade, or wood.
- (b) Other permitted materials in the **spar** are: adhesive, varnish, paint, wax, powder coat. An aluminium alloy **spar** may be anodised.

F.4.2 CONSTRUCTION

The **spar** section shall be constant within the variations permitted by F.4.5 except for

- (a) the last 10 mm at each end,
- (b) openings for fittings and **rigging**.

F.4.3 MAINSAIL BOOM FITTINGS

- (a) MANDATORY
 - (1) Mainsail **clew** fitting(s).
 - (2) Mainsail boom sheet fitting(s).
 - (3) Kicking strap fitting.
- (b) OPTIONAL
 - (1) Mainsail **tack** fitting(s).
 - (2) Gooseneck fitting.

F.4.4 **HEADSAIL BOOM FITTINGS**

- (a) MANDATORY
 - (1) Headsail tack and clew fittings.
 - (2) Headsail boom sheet fitting(s).
 - (3) Swivel and/or its fitting(s).
- (b) OPTIONAL
 - (1) Headsail stay fitting(s) or opening.
 - (2) Topping lift fitting(s) or opening.
 - (3) Counterweight and its attachment.

DIMENSIONS F.4.5

minimum maximum

Spar, ignoring features permitted by F.4.2:

difference between the smallest and largest

for an aluminium spar, the difference between the largest and smallest value along the

value along the **spar** of any external

F.5 STANDING RIGGING

F.5.1 **MATERIALS**

Except for terminations and the headsail boom swivel, the standing rigging shall be of steel and/or polymer.

F.5.2 **CONSTRUCTION**

- (a) MANDATORY
 - (1) Pair of shrouds.
 - (2) Backstay.
 - (3) Headsail boom swivel.
- (b) OPTIONAL
 - (1) Pair of checkstays if a mast strut is not fitted.
 - A headsail stay less than 1 mm in diameter.

(3) A mast **spar** jackstay less than 1 mm in diameter.

F.5.3 FITTINGS

OPTIONAL

- (a) Terminations.
- (b) Length and tension adjustments.

F.6 RUNNING RIGGING

F.6.1 MATERIALS

Materials of running rigging are unrestricted.

F.6.2 CONSTRUCTION

- (a) MANDATORY
 - (1) Mainsail boom sheet.
 - (2) Mainsail boom kicking strap.
 - (3) Headsail halyard, if headsail stay is not fitted.
 - (4) Headsail boom sheet.

(b) OPTIONAL

- (1) Mainsail halyard.
- (2) Mainsail clew control line.
- (3) Mainsail tack control line
- (4) Headsail halyard.
- (5) Headsail **clew** control line.
- (6) Headsail tack control line.
- (7) Headsail boom topping lift.
- (8) Headsail boom topping lift restraint line.

F.6.3 FITTINGS

OPTIONAL

- (a) Terminations.
- (b) Length and tension adjustments.
- (c) Mainsail boom sheet blocks, headsail boom sheet blocks.

Section G - Sails

G.1 PARTS

G.1.1 MANDATORY

- (a) Mainsail.
- (b) Headsail.

G.2 GENERAL

G.2.1 **RULES**

Sails shall comply with the class rules in force at the time of their initial certification control.

G.2.2**CERTIFICATION**

- (a) The official measurer shall certify sails in the tack and shall date each with the date of **certification control**.
- (b) An MNA may appoint one or more persons at a sailmaker to measure and certify sails produced by that manufacturer. A special licence shall be awarded for that purpose.

G.2.3**SAILMAKERS**

No licence is required.

G.2.4**DEFINITIONS**

Batten Pocket Point

The batten pocket point is defined as the intersection of the extended centreline of the **batten pocket**, or batten if there is no **batten pocket**, and the **leech**.

G.2.5**MEASUREMENT**

- (a) During measurement:
 - (1) battens need not be removed,
 - mainsails with the **luff** not set in a mast **spar** track may be attached to spars,
 - a headsail stay and mainsail mast spar jackstay need not be (3) removed.
- (b) Where a mainsail has a **luff** bolt rope the **luff** shall be taken as the aft edge of the bolt rope.
- (c) Luff slides shall be ignored when measuring sail dimensions provided that their total length, measured along the luff, does not exceed 10% of the luff length.

G.3MAINSAIL

G.3.1 **CONSTRUCTION**

- (a) MANDATORY
 - (1) The construction shall be: soft sail, single ply sail.
 - (2) The **body of the sail** shall consist of the same **ply** throughout and of not more than four parts joined by seams.
 - (3) **Seams** shall not deviate more than 10 mm from a straight line between luff and leech.
 - (4) The sail shall have three batten pockets, or battens if there are no batten pockets, at the leech.
 - (5) The **leech** shall not extend aft of straight lines between:

- (i) the **aft head point** and the nearest batten pocket point,
- (ii) adjacent batten pocket points,
- (iii) the **clew point** and the nearest batten pocket point.

where the batten pocket points are to be taken as defined in G.2.4.

- (6) The **foot** shall not extend below a straight line between **tack point** and **clew point**.
- (7) Class insignia.

(b) OPTIONAL

- (1) **Tabling** at the **luff** may form a pocket for a mast **spar** jackstay.
- (2) One or two cringles and/or openings at the **head.**
- (3) One cringle and/or openings at each of the **clew** and **tack.**
- (4) **Luff** openings for mast **spar** rings and/or loops for mast **spar** jackstay fittings.
- (5) **Luff** bolt rope.
- (6) Luff track slides.
- (7) **Luff** fittings for mast **spar** rings and/or loops.
- (8) **Luff** fittings for mast **spar** jackstay.
- (9) **Primary reinforcement** specified at G.3.3.
- (10) **Secondary reinforcement** specified at G.3.3.
- (11) Tell tales.
- (12) Not more than three sail shape indicator stripes, applied using paint or ink.
- (13) Sailmaker labels.

G.3.2 CONSTRUCTION TECHNIQUES

- (a) Only the following construction techniques shall be used where parts are joined or added as permitted in G.3.1 and G.3.3: welding; gluing; bonding with self adhesive tapes/materials; stitching.
- (b) Except for stitching, the joining techniques used at **seams** shall not extend beyond the edges of the **seam**.

G.3.3 DIMENSIONS

minimum	maximum
Leech length:	
mainsail 1	1610 mm 1620 mm
mainsail 2	
mainsail 3	910 mm 920 mm
Foot length:	
mainsail 1	350 mm 360 mm
mainsail 2	340 mm 350 mm
mainsail 3	310 mm 320 mm
Quarter width:	
mainsail 1	305 mm 315 mm
mainsail 2	

mainsail 3
Half width:
mainsail 1
mainsail 2
mainsail 3
Three-quarter width:
mainsail 1
mainsail 2
mainsail 3
Top width
Primary reinforcement:
from nearest sail corner measurement point
Secondary reinforcement:
from nearest sail corner measurement point
for flutter patches
at luff fittings, luff slides and/or luff openings
Tabling width 15 mm
Seam width
Seam to nearest sail corner measurement point 150 mm
Batten length:
middle and lower
upper
Batten width
Batten pocket length outside:
Batten pocket length outside: middle and lower
•
middle and lower

G.4 HEADSAIL

G.4.1 **CONSTRUCTION**

- (a) MANDATORY
 - (1) The construction shall be: soft sail, single ply sail.
 - (2) The body of the sail shall consist of the same ply throughout and of not more than three parts joined by seams.
 - (3) **Seams** shall not deviate more than 10 mm from a straight line between luff and leech.

- (4) The **leech** shall not extend aft of a straight line between **the aft head point** and the **clew point**.
- (5) The **foot** shall not extend below a straight line between **tack point** and **clew point**.

(b) OPTIONAL

- (1) **Tabling** at the **luff** may form a pocket for a headsail stay
- (2) One or two cringles and/or openings at the **head.**
- (3) One cringle and/or openings at each of the clew and tack.
- (4) Headsail stay slides and/or loops.
- (5) **Primary reinforcement** specified at G.4.3.
- (6) **Secondary reinforcement** specified at G.4.3.
- (7) Not more than two **batten pockets**, or battens if there are no **batten pockets**, at the **leech**.
- (8) Tell tales.
- (9) Not more than two sail shape indicator stripes, applied using paint or ink.
- (10) Sailmaker labels.

G.4.2 CONSTRUCTION TECHNIQUES

- (a) Only the following construction techniques shall be used where parts are joined or added as permitted in G.4.1 and G.4.3: welding; gluing; bonding with self adhesive tapes/materials; stitching.
- (b) Except for stitching, the joining techniques used at **seams** shall not extent beyond the edges of the **seam**.

G.4.3 DIMENSIONS

minimum	maximum	
Luff length:		
headsail 1	1320 mm 1330 mm	
headsail 2	980 mm 990 mm	
headsail 3	730 mm 740 mm	
Leech length:		
headsail 1	1245 mm 1255 mm	
headsail 2	900 mm 910 mm	
headsail 3	655 mm 665 mm	
Foot length:		
headsail 1	375 mm 385 mm	
headsail 2	340 mm 350 mm	
headsail 3	290 mm 300 mm	
Half width:		
headsail 1	185 mm 195 mm	
headsail 2	165 mm 175 mm	
headsail 3	140 mm 150 mm	
Top width	20 mm	

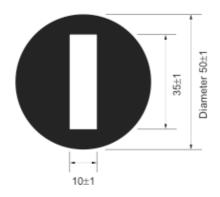
Primary reinforcement:

from nearest sail corner measurement point
Secondary reinforcement
from nearest sail corner measurement point
for flutter patches
at headsail stay slides and/or loops
Tabling width
Seam width
Seam to nearest sail corner measurement point 100 mm
Batten length
Batten width
Batten pocket length outside
Batten pocket width outside
Clew point to lower batten pocket point as defined in G.2.4:
headsail 1
headsail 2
headsail 3
Clew point to upper batten pocket point as defined in G.2.4:
headsail 1
headsail 2
headsail 3
Largest cringle dimension
Sail shape indicator stripe width

PART III - APPENDICES

Section H – Illustrations

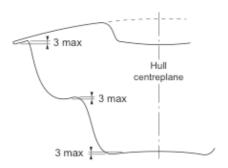
H.1 CLASS INSIGNIA



H.2 TRANSVERSE HULL HOLLOWS

Rule D.2.2(b)(3)

The **hull** shall not have transverse hollows in the undersurface of the **hull** that exceed 3 mm when tested parallel to the waterplane.



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