



# Soling One Meter Class Rules

*Proposed - R1. Administrative revision - 01 October 2009/2010*

Note: Underlined text changed since last revision dated 01 October 2006.

## 1.0 Concept

The *definitions, dimensions, limits, and restrictions* listed are intended to maintain the *one-design* concept of ~~this the~~ class. The concept behind the **Soling One Meter** class is that a first-time skipper ~~should~~ be able to build and sail a model ~~yachtboat~~ that has essentially no performance differences from a boat built by an expert. All aspects related to performance are intended to be restricted to what can be achieved by building the *kit* ~~straight from in accordance with~~ the *manufacturer's assembly manual*. Aspects not affecting performance are not ~~as~~ strictly *controlled*. These rules are intended to ensure that all boats are as close as possible with regard to *hull, deck, keel, rudder, sails, displacement and ballast*. Any obvious attempt to negate or violate this concept ~~shall will~~ require that the boat be barred from competition until such time as the violation is corrected.

## 1.1 General

The class specification is defined by these *class rules*, the *control drawings*, the manufacturer's *assembly manual*, and ~~any~~ applicable rules of the AMYA, in that order. If a feature which ~~may could~~ enhance performance is not shown in the manufacturer's *assembly manual* and not specifically permitted by these *class rules*, then it is *prohibited*. All dimensions shown in the manufacturer's *assembly manual* are to be adhered to unless specifically overridden by ~~these the~~ class rules.

## 2.0 Standard

The class ~~shall be is~~ called the **Soling One Meter**. Boats conforming to these *class rules* ~~must be are~~ built from a *kit*, obtained from an *approved manufacturer*. The *Class Secretary* ~~shall maintain maintains~~ a list of *approved manufacturers* of the *kit*.

## 2.1 Hull and Keel

The *hull* and *keel* ~~shall are to~~ be ~~as those~~ supplied in the *kit*. The *keel* can be removable or permanently attached to the *hull* in the location shown on the *control drawings*.

## 2.2 Deck, Hatch, and Lazarette

The deck ~~shall is to~~ be that supplied in the *kit*. Any method of deck attachment is permitted, provided that the *deck* inboard of the hull is unchanged. The *deck flange*, if any, ~~may is permitted to~~ be removed. An alternate *hatch cover* ~~may be fabricated is permitted~~, but ~~must is required to~~ conform in size and shape with that supplied by the *kit*. One additional deck opening (~~hole~~) ~~may be the lazarette~~ is permitted in the ~~deck~~ area over the *rudder shaft horn assembly*. ~~This opening, to be known as the lazarette, is optional.~~ If installed, the *lazarette* opening ~~in the deck~~ is restricted in size to a maximum of 9 square inches (58 sq.cm). The shape of the *lazarette* and its covering material is uncontrolled. unrestricted.

## 2.3 Rudder

The *rudder* ~~shall is to~~ conform ~~to in shape with~~ that supplied in the *kit*. The mounting location ~~shall is to~~ be as shown on the *control drawings*. ~~In the event of damage to the original rudder, A replacement rudder may be fabricated as long as the replacement rudder shall be of the the same size or smaller than and conform in shape with~~ that supplied in the *kit* ~~and conform~~.

## 2.3 Rudder

The rudder is to the original shape conform in size and shape to that supplied in the kit. The mounting location is to be as shown on the control drawings.

## 2.4 Interior Construction

The construction, layout, materials, and equipment used inside the hull ~~is are~~ unrestricted as long as it does not conflict with except where prohibited by any other rule.





# Soling One Meter Class Rules

Proposed - R1. Administrative revision - 01 October 2009/2010

## 3.0 Displacement and Ballast

The *minimum ready-to-sail weight* of the ~~yacht shall~~boat is to be 10 pounds- (4.536 kg). The *ready-to-sail weight* ~~shall include~~includes the *radio receiver, batteries, steering servo, sail control unit, sails and rigging*.

## 3.1 Materials

*Ballast* ~~shall is to~~ consist of *lead shot* permanently bonded in the *keel*. Molded, ~~solid lead ballast~~ shall be is prohibited.

## 4.0 Spars

The *mast* and *booms* ~~shall (club) are to~~ be made of solid wood or plywood. Hollow *spars* are *prohibited*, ~~although~~. A *slotted mast* is *permitted*. ~~If used, plywood must have all layers of uniform density. All replacement spars shall~~ Spars are not to exceed the ~~dimensions~~size of the ~~originals contained~~original spars supplied in the *kit*, except that the *jib boom* ~~may is permitted to~~ be up to 15-½ inches (394381 mm) long. No *weight* ~~shall is to~~ be added to the *jib club (jib boom)* forward of the *swivel*.

## 5.0 Rigging

The use of commercially-available or home-made fittings, fairleads, turnbuckles, screw eyes, eye bolts, tangs, bowsies, goosenecks, boom vang, mast jacks, mast cranes, outhauls and woven or braided wire for *shrouds* and *stays* ~~shall be is permitted~~. *Fairleads (sheet exit guides)* ~~shall are~~ not to extend higher than ½ inch (12.7 mm) from the *deck*. Larger *screw eyes* or *through-deck eye bolts* ~~may are permitted to~~ replace *screw eyes* supplied with the *kit*.

## 5.1 Standing Rigging

The use of multiple *diamond rigging* ~~shall be is permitted~~. A *permanent backstay* is *required*. The ends of the *spreaders* ~~shall are~~ not to extend beyond the width of the *hull* at the *mast*. *Spreaders* ~~shall are to~~ be made of wood, aluminum or brass. *Spreaders* ~~shall are~~ not to be angled fore or aft of the *mast*. The ~~side stays (shrouds (or diamond side stays) descending from the outer ends of the spreaders shall are to~~ attach either to the *mast (diamond stays)* as shown in the *manufacturer's assembly manual (the diamond stays)* or to the *deck (shrouds)* in the range shown by *General Configuration Control Drawing Note 4*. If *diamond stays* are used and located as shown in the *manufacturer's assembly manual*, a second set of ~~shrouds may stays is permitted to~~ be attached between the *spreaders* and the *deck* in the range shown by *General Configuration Control Drawing Note 4*.

## 5.2 Mast Crane –(Backstay Bracket)

The *mast crane* ~~at the top of the mast may is permitted to~~ be longer than the one supplied in the *kit* and/or mounted at an angle as shown on the *control drawings* ~~to prevent the mainsail from interfering with the backstay~~. The *mast crane* ~~may is permitted to~~ be constructed of wood, aluminum, or brass. The lower end of the *backstay* ~~may is permitted to~~ be attached at, but not beyond, the *transom*.

## 5.3 Mainsail Height

The maximum height of the *mainsail* from the *deck* ~~shall is~~ not to exceed 51-¼ inches (1302 mm).

## 5.4 Jib Stay Attachment

The height from the *deck* to the *jib stay attachment* on the *mast* ~~shall is~~ not to exceed 45-¾-¾ inches (1162 mm) including the *jack screw*, if used.

## 5.5 Wind Indicators

The use of a *wind indicator* or *wind vane* on the top of the *mast* ~~shall be is permitted~~.

## 5.6 Deck Layout

*Deck hardware* ~~shall is to~~ be located in conformance with the *control drawings*. The method of



# Soling One Meter Class Rules

Proposed - R1. Administrative revision - 01 October 2009/2010

attachment to the deck of any *hardware* is ~~uncontrolled/unrestricted~~. Racks ~~may~~ are permitted to be used/mounted on the *deck* in place of *screw eyes*. If *fittings* exist in alternate locations not *permitted* by the *control drawings*, the ~~legal/permitted~~ positions shall be to be clearly marked.

## 5.7 Mast Step

The mast ~~must~~ is required to be stepped on-deck, but any *mast step arrangement* is *permitted*.

## 5.8 Running Rigging

~~Any outhauls, cunninghams~~ Each outhaul, cunningham and halyards shall each/or halyard is to be attached to only a single *spar*. The use of a separate *jib halyard* is *permitted*. *Topping lifts* are *prohibited*.

## 6.0 Sails

*Sails* ~~shall be to~~ be *single-panel* and ~~shall be to~~ be cut to match the *control drawings*.  
(\*revised 2001 and 2008)

### 6.1 Sail Material

*Sails* ~~shall be only to~~ be made only from *woven polyester fiber cloth*, having a thickness of 0.004 to 0.007 inches (0.1016 to 0.1778 mm).

### 6.2 Battens

**6.2.1 Mainsail:** No more than 3 *battens* positioned in such a way that the *leach* is divided into 4 equal parts. Maximum *batten* lengths: top 5 inches (127 mm), middle 6 inches (152 mm), bottom 4 inches (102 mm).

**6.2.2 Jib sail:** No more than 2 *battens* positioned in such a way that the *leach* is divided into 3 equal parts. Maximum *batten* lengths: top 4 inches (102 mm), bottom 2.5 inches (64 mm).

### 6.3 Sail Reinforcement

The sails ~~may~~ are permitted to be *reinforced* by addition of woven cloth or tape material within 3 inches (76mm) of the head, tack, and clew corners, and within ¼ inch (6.4 mm) of the leech edge.

### 6.4 Sail Numbers and Class Logo

*Sail numbers* ~~shall be to~~ be a minimum of 3 inches (76 mm) in height and 3/8 inches (9.5 mm) in stroke width. ~~They shall be placed, located~~ as shown on the *control drawings*. The *class logo* ~~shall be is~~ optional, but if ~~present, must be displayed, is to be located~~ as shown on the *control drawings*. Alternatively, sails ~~may~~ are permitted to be marked ~~according to in accordance with~~ the *Racing Rules of Sailing (current edition)*-, Appendix E Rule E6, and Appendix G.

## 7.0 Radio

Any brand and type of *radio equipment* is *permitted*. ~~A maximum of two channels shall be used.~~ *Transmitters* and *receivers* ~~may~~ are permitted to have more than two *channels*, provided only two *channels* are used. One *channel* ~~shall is~~ required to be used for *sail sheet control* only, and one *channel* ~~shall is~~ required to be used for *rudder control* only. The use of a *backstay tensioner*, *extra jib trimmer*, or *jib twitcher* is *prohibited*.

## 8.0 Adhesives

The use of any *adhesive* is *permitted* to bond any part provided with the *kit*, or *permitted* by these rules.



## **Soling One Meter Class Rules**

*Proposed - R1. Administrative revision - 01 October ~~2009~~2010*

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### **9.0 Control Drawings**

The following *control drawings* are ~~to be read as~~ part of the *class rules*:

**9.1 Sail Control Drawing**, dated 14 February 2005.

**9.2 General Configuration Control Drawing**, dated 14 February 2005.

### **10.0 Assembly Manual**

The manufacturer's *assembly manual* is included with the *kit*, and has a revision date of *September 1987 or July 1997*.



# Soling One Meter Class Rules

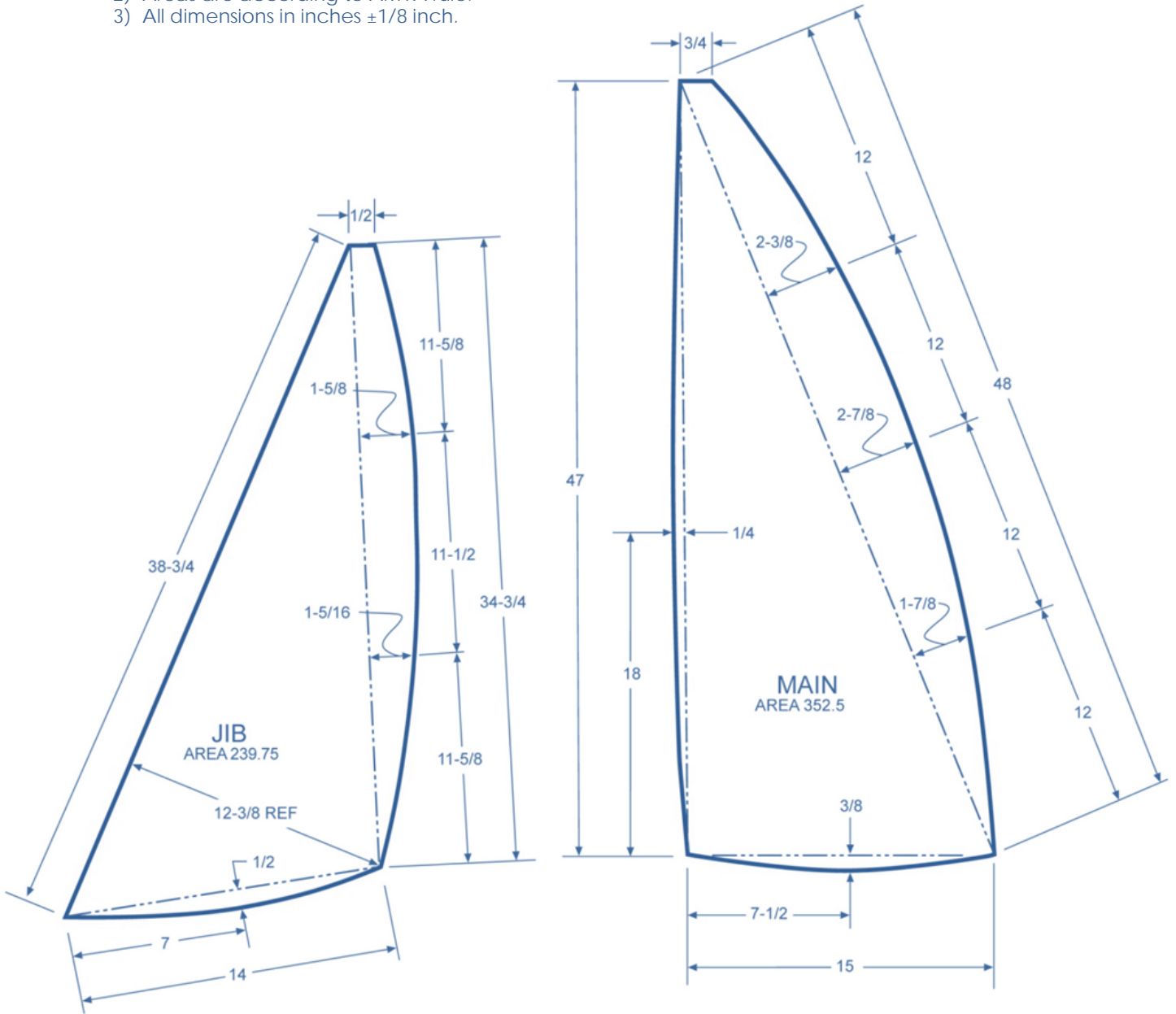
Proposed - R1. Administrative revision - 01 October 2009/2010

## Sail Control Drawing

14 February 2005

Notes:

- 1) This drawing defines the shape of sails in the flat, not on the boat.
- 2) Areas are according to AMYA rule.
- 3) All dimensions in inches  $\pm 1/8$  inch.





# Soling One Meter Class Rules

Proposed - R1. Administrative revision - 01 October 2009/2010

## General Configuration Control Drawing

14 February 2005

### Notes:

- 1) All dimensions in inches.
- 2) Tolerance:  $\pm 1/4$  inch unless otherwise noted.
- 3) Subtract  $1/4$  inch from all dimensions measured from datum for flangeless deck
- 4) Shroud (sidestay) may be located anywhere in range.

