



# International MICRO MAGIC Class Rules

Version 3 – 1<sup>st</sup> January 2008

## General

These regulations have been provided to ensure that all countries can compete in a fair and equal environment. The regulations are based on one-design principles but with some freedom of construction and layout.

We will strive to keep the rules as simple as possible whilst ensuring that the cost of maintaining a competitive boat is tightly controlled.

With this in mind we would ask all sailors to adhere to the spirit of these rules and not seek to gain advantage by manipulation of the wording through translation or other means.

These regulations are designed primarily for International competition, however any Nation is welcome to adopt these rules for their own National competition.

These regulations use a Micro Magic built from the standard instructions supplied by Graupner as a base line, see appendix 1 for definitions.

## Regulations

### 1.0 Hull & Deck

- 1.1 The hull, deck, keelbox and canopy must use the Graupner ABS mouldings, part no 2114.1 or 2014.1 these components may not be modified in any way except for the following:
  - i, Paint or other decorative finish can be applied.
  - ii, A max of 6 additional holes of no greater than 20mm diameter can be made in the deck and/or the canopy.
  - iii, Additional material may be added to the mating surfaces of the keelbox to aid construction and to reduce mast heel wear.
  - iv, The abs servo tray support on the 2114 keelbox may be removed.
- 1.2 The layout and construction of internal components is free
- 1.3 Per regatta, each boat must only make use of one hull.  
Exceptions are allowed in the event of demonstrable damage.
- 1.4 The canopy from either the MKI or MKII shall be fitted when sailing.
- 1.5 The hull length must not be altered other than the addition of a screw eye or eyebolt for the backstay and for a drainage bung.

### 2.0 Weight of sail ready boat

- 2.1 The minimum weight of a sail ready boat is 860 grams.

### 3.0 Keel and Rudder

- 3.1 The Graupner keel, part 2114.2 or 2014.2 shall be used.
- 3.2 The Graupner Ballast weight, part 2114.4 or 2014.4 shall be used.
- 3.3 The Graupner rudder, part 2114.3 or 2014.3 shall be used.
- 3.4 The location of the keel and rudder is restricted to the standard Graupner positions as identified on the build drawings.
- 3.5 There are no restrictions on what rudder, keel, ballast combinations are used.
- 3.6 The keel inclusive of the lead ballast may not extend farther than 135 mm from the hull.
- 3.7 The keel must be removable.
- 3.8 The filling, fairing and painting of the keel, ballast and rudder is permitted.
- 3.9 The ballast must maintain a circular cross-section along the entire length.
- 3.10 The weight of the keel assemblies (see appendix 1) shall not be less than 380 grams and not more than 420 grams.
- 3.11 Wings or other extensions are not allowed for the keel, ballast or rudder.
- 3.12 The ballast must be able to fit inside the Graupner supplied abs ballast fairing mouldings. The permanent fitting of the abs ballast fairing mouldings is optional.

## 4.0 Mast & Booms

- 4.1 The maximum diameter of the mast or booms is 7mm.
- 4.2 The minimum diameter of the mast is 5 mm
- 4.3 The minimum diameter of the booms is 4 mm
- 4.4 The profile of all spars must be circular over their entire length.
- 4.5 Continuous taper masts are not allowed.
- 4.6 Swivel masts are not allowed.
- 4.7 The mast shall be stepped in the standard position as identified on the drawing.
- 4.8 The maximum distance from the deck to the mast top is 780mm.
- 4.9 The jib boom may not have a fixed connection with either the mast or boom.
- 4.10 The jib boom must be connected to the deck with the use of a flexible connector in the standard position as indicated in the Graupner drawing.
- 4.11 There are no restrictions on mast or boom materials.
- 4.12 There are no further restrictions on standing or running rigging.

## 5.0 Sails

- 5.1 Sails will be measured to the sailplan (fig 1) with a maximum tolerance of 2mm.
- 5.2 Smaller sails are allowed, so long as they remain within the maximum limits as shown in fig1.
- 5.3 Sails must be made from flexible materials that can be rolled into a max diameter of 50mm.
- 5.4 The mainsail must display a class provided sail number and country designation.
- 5.5 The minimum letter and number height is 40mm. The minimum letter and number width is 6mm. Letters should be of a good contrasting colour and completely filled in.  
See Fig 2 for positioning information.

## 6.0 Electric components

- 6.1 Only two servos are allowed.
- 6.2 One servo must control the steering and one servo must be used for the sheets. The servos must not be used for any other purpose.

## Appendix 1

### Definitions

Name	Part Number	Description
<b>Micro Magic</b>	<b>2114</b>	<b>Original or MKI</b>
Hull, deck & canopy	<b>2114.1</b>	MKI ABS hull, deck, keelbox & canopy shells
Keel	<b>2114.2</b>	MKI keel
Rudder	<b>2114.3</b>	MKI rudder
Ballast	<b>2114.4</b>	MKI lead ballast
<b>Micro Magic RTS</b>	<b>2114.200</b>	<b>RTS (ready to Sail) factory built MKI</b>
<b>Micro Magic RMM</b>	<b>2014</b>	<b>MKII or racing / tuning version</b>
Hull, deck & canopy	<b>2014.1</b>	MKII ABS hull, deck, keelbox & canopy shells
Keel	<b>2014.2</b>	MKII keel including spacers.
Rudder	<b>2014.3</b>	MKII rudder
Ballast	<b>2014.4</b>	MKII lead ballast
<b>Keel Assembly</b>	Comprises of the Keel, ballast and in the case of the MKII keel it also includes the spacers required for the central location.	

Fig 1: Sailandimensions

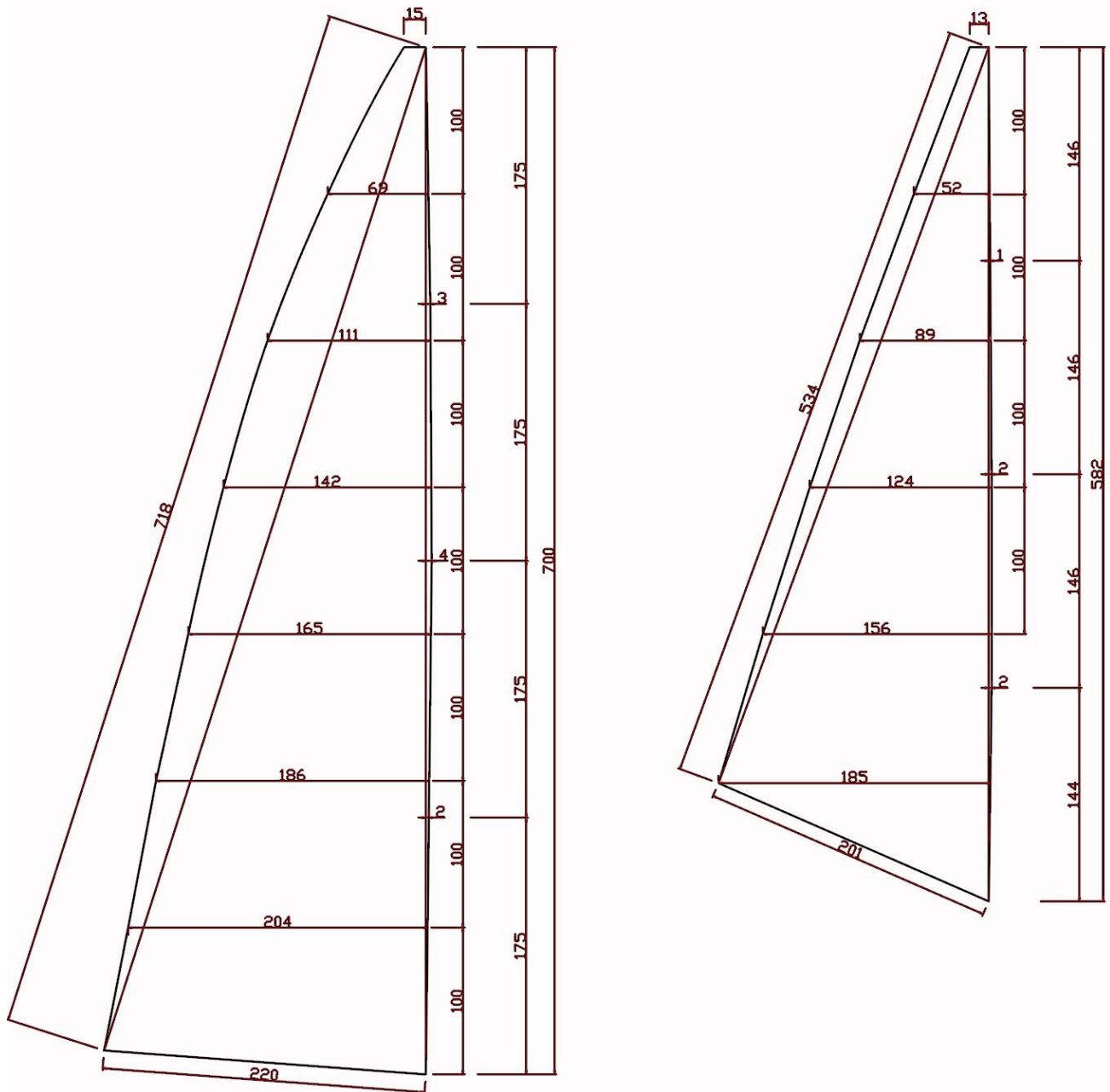
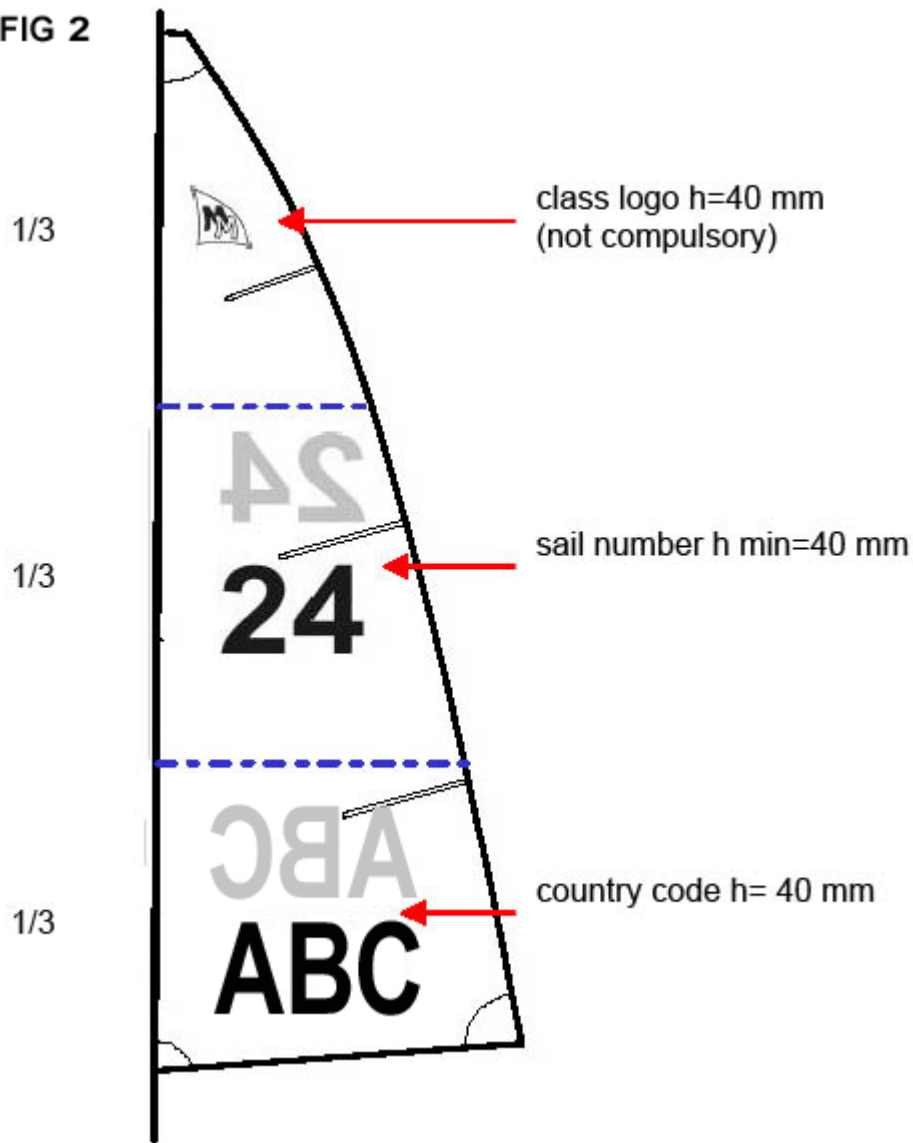


FIG 2



Rule amendment log		
Rule	Description	Date
1.1	"Keelbox" added to the line	Jan 2008
ii	Hole size increased	Jan 2008
iii	New line added	Jan 2008
iv	New line added	Jan 2008
1.5	"Drainage bung" added to the line	Jan 2008
4.5	Line rewritten	Jan 2008
6.3	Line deleted	Jan 2008
Definition Table	"Keelbox" added to 2114.1 definition	Jan 2008
Definition Table	"Keelbox" added to 2014.1 definition	Jan 2008

