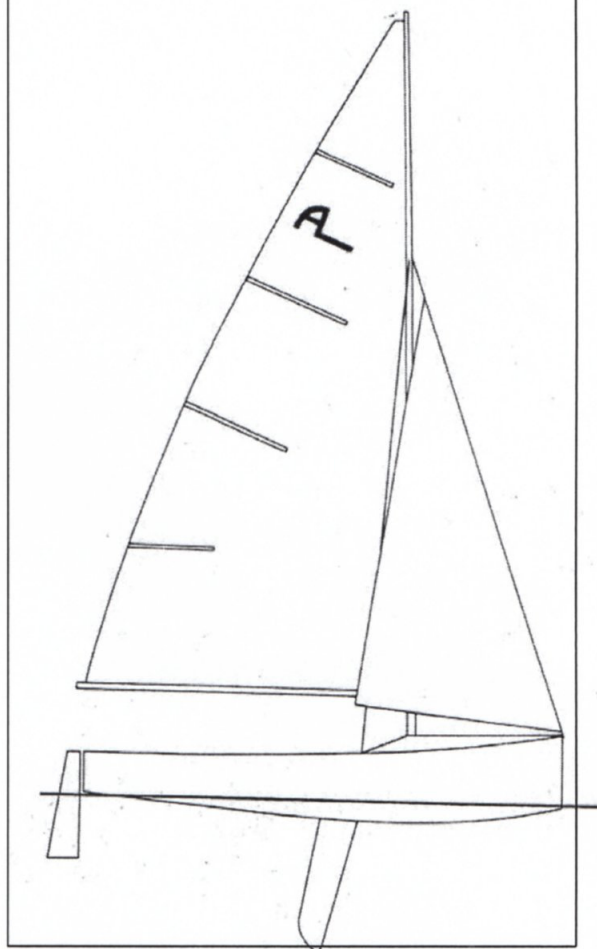


**ALBACORE™**

**CLASS  
RULES**



**MARCH 2003**

## **7 CENTREBOARD**

- 7.1 If of streamline section shall be of wood and/or GRP construction except for normal protective edges.
- 7.2 If of metal, the Centreboard shall be of normal commercial flat sheet not less than 6mm thick. Any fairing shall extend not more than 25mm from the edges.
- 7.3 The centreboard shall have no moving parts or devices to change the angle or pitch in the transverse plane and when housed shall not extend above the sheerline or below the keel.
- 7.4 The profile of the centreboard, including any protective strips, shall be measured according to the centreboard profile drawing. The width of the board shall be measured at right angles to the leading edge. Measurement AD, which shall be  $350\text{mm} \pm 10\text{mm}$ , being taken at the centre of the pivot hole and measurement BC, which shall be  $280\text{mm} \pm 10\text{mm}$ , being taken with point B 1000mm from point A. The leading and trailing edges between measurement points AB and CD shall not deviate from the straight lines by more than 5mm. The bottom part of the centreboard below the line BC may be of any shape but must be within the area bounded by the straight line extensions of the leading and trailing edge. The overall length measured from the pivot hole shall be not more than 1270mm or less than 1220mm. The top part of the centreboard above the line AD may be of any shape but shall be of uniform thickness.

## **8 RUDDER**

Subject to Rule 14.8 the rudder may be lifting or fixed and of any shape or material. When in position on the hull and fully lowered, it shall project not less than 550mm below the intersection of the line of the keel and transom measured along the line of the aft face of the transom.

## **9 MAST**

- 9.1 The mast shall be of wood or aluminium alloy. The sail track may or may not be integral with the mast and may be of any material.
- 9.2 Metal masts shall be constructed of standard grade marine aluminium alloy from a section with a minimum weight of 0.90kg per metre where untapered and minimum wall thickness of 1.5mm as specified by the manufacturer.



- 9.3 Tapering is allowed above the forestay attachment.
- 9.4 The mast surfaces shall be relatively smooth with no fairings on the surface of the mast designed to change its windage characteristics.
- 9.5 The mast may have only one set of spreaders and/or one pair of jumper struts.
- 9.6 The mast, including any sail track but excluding rigging and fittings, shall be able to pass through a 100mm diameter circle.
- 9.7 Distinctively coloured bands, not less than 10mm wide, shall be marked indelibly on the mast as follows:-  
No. 1 The upper edge of which shall be not more than 610mm or less than 505mm above the sheerline.  
No. 2 The lower edge of which shall be not more than 5640mm above the upper edge of band No. 1.
- 9.8 No part of the headsail boom fitting(s) attached to the mast shall project more than 40mm from the mast.
- 9.9 The distance of the foreside of the mast, at deck level, from the aft face of the transom shall be not more than 3330mm or less than 3225mm. Rigid stops shall be fitted to prevent movement beyond these limits.
- 9.10 The fore side of the mast at the foot shall be not more than 3350mm or less than 3250mm from the aft face of the transom and the foot of the mast shall not be moved or be allowed to move while racing.
- 9.11 The mast shall be either sealed to keep out water, or filled for at least the top 4270mm with closed cell expanded foam or foam pellets, or have openings at each end to facilitate quick draining.
- 9.12 Rotating masts are not permitted.
- 9.13 The distance between the bottom of the mast, when stepped and the top of the hog (or equivalent surface in a GRP hull) measured along the line of the mast shall be not more than 150mm.

## **10 BOOM**

- 10.1 The boom shall be of wood or aluminium alloy.
- 10.2 The boom complete with sail track, but excluding other fittings, shall be able to pass through a 100mm diameter circle.

- 10.3 A distinctively coloured band not less than 10mm wide, shall be marked indelibly on the boom the inner edge of which shall be not more than 2950mm from the extension of the line of the aft side of the mast track.
- 10.4 When racing, the top of the fore end of the boom shall not be lower than the upper edge of the lower mast band.

## **11 HEADSAIL POLE**

- 11.1 The overall length of the headsail pole including fittings shall not exceed 1830mm.
- 11.2 A headsail pole may be used to sheet the headsail to windward or to leeward. No part of the headsail pole or its fittings may extend more than 50 mm outside of the headsail clew.

## **12 STANDING AND RUNNING RIGGING**

- 12.1 One forestay and two shrouds shall be fitted so that either or both the sails may be lowered without endangering the stability of the mast or its security in the boat at all times. Both sails must be capable of being raised and lowered by halyards.
- 12.2 The forestay and headsail halyard, or their extensions, shall intersect the foreside of the mast at a point not more than 4270mm above the sheerline.
- 12.3 The distance of the shrouds at deck from the aft face of the transom shall not exceed 2795mm.
- 12.4 The type and material of the running rigging is optional.

## **13 SAILS**

### **13.1 General**

- 13.1.1 Anything not specifically permitted by these class rules is PROHIBITED.
- 13.1.2 Sails shall be made and measured in accordance with the Equipment Rules of Sailing 1997 - 2000, except where varied herein. Where a term defined or a measurement given in the Equipment Rules of Sailing 1997 - 2000 is used in these rules it is printed in *"italic"* type.
- 13.1.3 The manufacturer of *sails* is optional.



## **13.2 Mainsail**

### **13.2.1 Construction**

- 13.2.1.1 The construction shall be: *Soft sail, single ply sail.*
- 13.2.1.2 The *body of the sail* shall consist of woven ply. Except within 350mm of the *foot*, the ply shall be the same throughout. The *ply* fibres shall be of polyester.
- 13.2.1.3 The *sail* shall have not more than four *batten pockets* which shall be in the *leech*.
- 13.2.1.4 The following are permitted: Stitching, glues, tapes, bolt ropes, corner eyes, headboard with fixings, Cunningham eye/pulley, batten pocket elastic, battens, mast and boom slides, leech line with cleat, two windows, sailmaker label, tell tales.

### 13.2.2 Dimensions

		Minimum	Maximum
<i>Leech length</i>			6120mm
<i>Half width</i>			1850mm
<i>Three-quarter width</i>			1045mm
<i>Top width</i>			125mm
<i>Ply weight of the body of the sail</i>		128.4g/m <sup>2</sup>	
<i>Primary reinforcement</i>			350mm
<i>Secondary reinforcement:</i>			
	<i>from corner measurement points</i>		1050mm
	<i>for flutter patches</i>		120mm
	<i>for chafing patches</i>		1050mm
	<i>for batten pocket patches</i>		175mm
<i>Tabling width</i>			40mm
<i>Seam width</i>			20mm
<i>Window area</i>			0.19m <sup>2</sup>
<i>Shortest distance from window to edge of sail</i>		150mm	
<i>Batten pocket length:</i>			
Inside	Uppermost and lowermost pockets		770mm
	Intermediate pockets		1030mm
<i>Batten pocket width:</i>			
	Inside		50mm
	Outside		90mm
<i>Head point to intersection of leech and centreline of uppermost batten pocket</i>		1175mm	1224mm
<i>Clew point to intersection of leech and centreline of lowermost batten pocket</i>		1175mm	1224mm

### 13.3 Headsail

#### 13.3.1 Construction

13.3.1.1 The construction shall be: *Soft sail, single ply sail.*

13.3.1.2 The *body of the sail* shall consist of the same *woven ply* throughout.  
The *ply* fibres shall be of polyester.



13.3.1.3 The following are permitted: Stitching, glues, tapes, corner eyes, Cunningham eye, hanks, luff wire, leech line with cleat, one window, sailmaker label, tell tales.

13.3.1.4 The *leech*, between the *aft head point* and *clew point*, shall be straight or concave.

**13.3.2 Dimensions** (to be measured as a headsail)

	Minimum	Maximum
Area of sail		3.310m <sup>2</sup>
Top width		30mm
Ply weight of the <i>body of the sail</i>	128.4g/m <sup>2</sup>	
Primary reinforcement		300mm
Secondary reinforcement:		
from <i>corner measurement points</i>		900mm
for <i>flutter patches</i>		100mm
for <i>chafing patches</i>		900mm
Tabling width		40mm
Seam width		20mm
Window area		0.19m <sup>2</sup>
Shortest distance from <i>window</i> to <i>edge of sail</i>	150mm	

13.3.3 The area of the sail shall be calculated from:

$$\frac{L \text{ (in mm)} \times LP \text{ (in mm)}}{2,000,000}$$

where L is the *luff length* and LP is the *luff perpendicular*. The calculated area shall be rounded up to the next 0.001m<sup>2</sup>.

**13.4 Class Insignia, National Letters and Sail Numbers**

13.4.1 The class insignia and the sail number and letters, as issued by the Association shall be in accordance with RRS 77 and Appendix G, except where varied herein.

13.4.2 Numbers and letters shall be of the following dimensions:

	Minimum
Height	300mm
Width (except number "1" or letter "I")	200mm
Thickness	40mm
Spacing between adjoining numbers or letters	60mm

- 13.4.3 The class insignia shall conform with the dimensions and requirements as detailed in the diagram contained in Part C these rules. The class insignia shall not be shown on headsails.

### **13.5 Additional Rules**

- 13.5.1 Only sails endorsed in accordance with rule 13.5.2 shall be used.
- 13.5.2 Not more than one mainsail and not more than one headsail shall be endorsed on the certificate when originally issued. Sails may be added by endorsement as additions or replacements (but not both) at the rate of one mainsail and one headsail (two headsails in the UK) during each succeeding twelve month period commencing from the date of issue of the original/initial measurement certificate. The Association shall have the discretion to permit the endorsement of further replacement sails in the event of loss or damage.
- 13.5.3 Not more than one mainsail and one headsail shall be carried on board.
- 13.5.4 The mainsail shall be set so that the highest visible point at the head is lower than the lower edge of the upper mast measurement band and so that the aftmost visible part of the *leech* is forward of the inner edge of the boom measurement band.
- 13.5.5 Loose footed mainsails are not permitted.

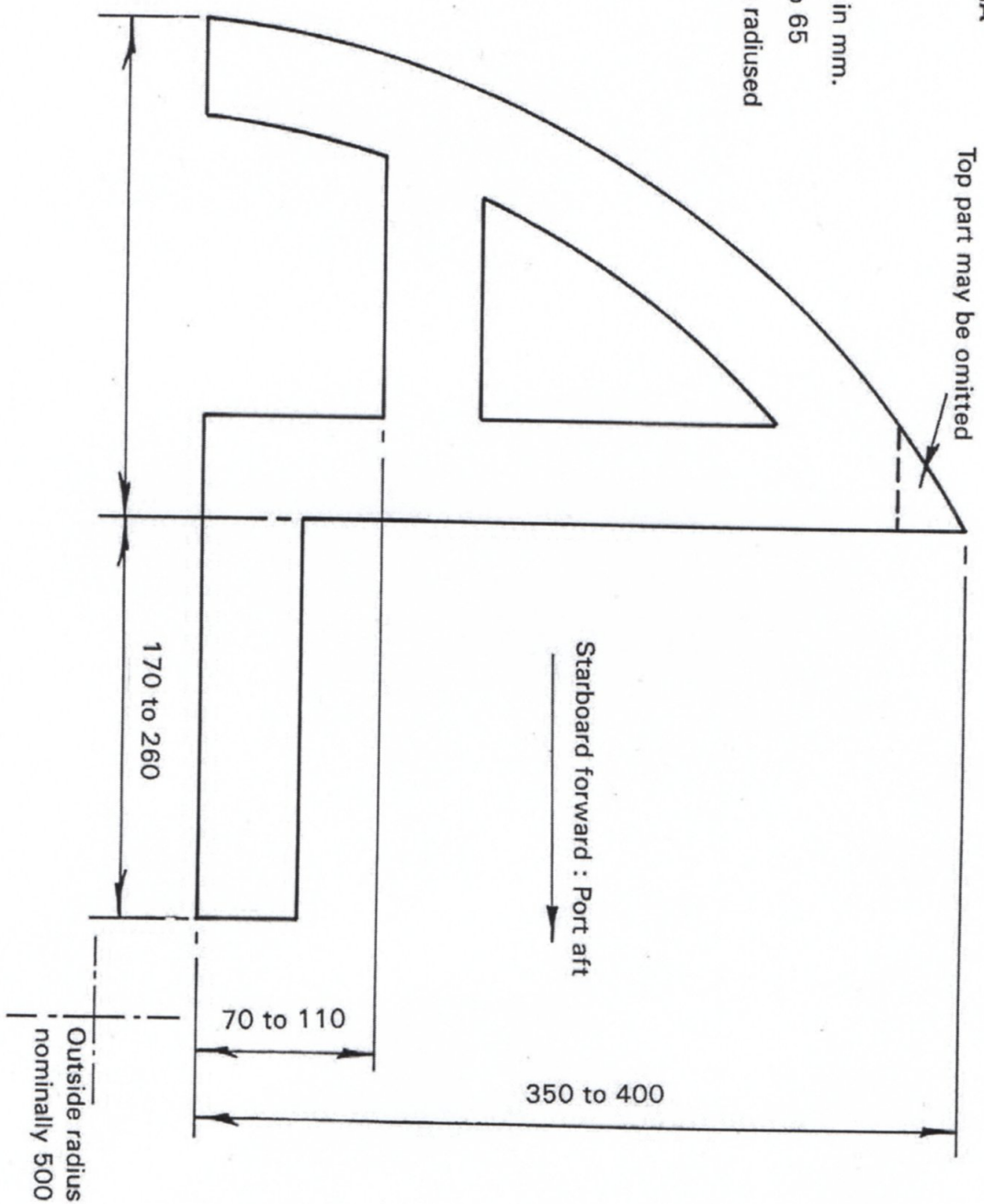
## **14\* PROHIBITIONS**

- 14.1 Self draining apparatus except for suction bailers and transom draining ports.
- 14.2 Any apparatus or contrivance outboard, or extending outboard, the purpose or effect of which is, or may be, to support or assist in supporting a member of the crew outboard or partially outboard.
- 14.3 Spinnakers
- 14.4 Boweyes which extend forward of the stem.
- 14.5 Any device to alter the effective shroud length while racing in the United States of America and/or Canada.
- 14.6 Sail zippers or other similar closing devices.
- 14.7 Double luff headsails.



**PART C - DIAGRAMS**  
**2 CLASS INSIGNIA**

All dimensions are in mm.  
Thickness = 45 to 65  
All corners may be radiused



		surface in accordance with Rule		
78	B3.2.19	Width of side benches within limits stated above	300	355
79	B3.2.20	Transom dishing or tiller port in accordance with rule	YES/NO	
80	B3.2.21	Number of drain ports fitted		2
81	B3.2.22	Drain ports are more than 25mm from top of transom, tiller port, any part of the outside skin of the hull or the other port	YES/NO	
82	B3.2.22	Area of each drain port		0.033m <sup>2</sup>
83	B3.2.23	Drain port closing devices are fitted to each port which: (a) never act as extension of hull skin (b) never come within 15mm of the outside of the hull skin (c) are capable of being re-closed while sailing	YES/NO	
84	B3.2.24	Number of suction bailers fitted		2
85	B3.2.24	Total effective cross-sectional area of bailers		1300mm <sup>2</sup>
86	B4	Buoyancy shall not extend into the floor space defined as 355mm from centreline between the shrouds to 305mm from centreline 915mm from aft face of transom. Buoyancy conforms to Rule 4.	YES/NO	
		<b>WEIGHT</b>		
87	B6.2	Weight of stripped hull in dry condition	109kg	
88	B6.3	Weight of correctors		9kg
		<b>MEASUREMENTS ON CENTREBOARD</b>		
89	B7.4	Width of centreboard at pivot hole measured at right angles to the leading edge	340	360
90	B7.4	Width of centreboard 1000mm below pivot hole measured at right angles to the leading edge	270	290
91	B7.4	Length from centre of pivot hole to tip	1220	1270
		<b>MEASUREMENT ON SPARS</b>		
92	B9.5	Mast fitted with not more than one set of spreaders and/or one pair of jumper struts	YES/NO	
93	B9.6	Mast of wood or aluminium alloy and able to pass through a 100mm diameter circle	YES/NO	
94	B9.7	Upper edge of band No. 1 above sheer	505	610
95	B9.7	Lower edge of band No. 2 above upper edge of band No. 1		5640
96	B9.9	Foreside of mast at deck level from aft face of transom	3225	3330
97	B9.9	Are rigid stops fitted to prevent movement of mast outside tolerance given in item 99	YES/NO	
98	B9.10	Foreside of mast at the foot from aft face of transom	3250	3350



99	B10.2	Boom of wood or aluminium alloy and able to pass through a 100mm diameter circle	YES/NO	
100	B10.3	Inner edge of band on boom from extension of the line of the aft side of the mast track		2950
101	B11	Headsail pole length including fittings		1830
102	B12.2	Point of intersection of foreside of mast and forestay and headsail halyard above sheerline		4270
103	B12.3	Shrouds at deck from aft face of transom		2795
		<b>MEASUREMENTS ON MAINSAIL</b>		
104	B13.2.2	Length of leech		6120
105	B13.2.2	Inside length of upper and lower batten pockets		770
106	B13.2.2	Inside length of other batten pockets		1030
107	B13.2.2	Inside width of batten pockets		50
108	B13.2.2	Centreline of upper and lower batten pockets comply with rule	YES/NO	
109	B13.2.2	Top width		125
110	B13.2.2	Width of mainsail at half leech point		1850
111	B13.2.2	Width of mainsail at three-quarter leech point		1045
		<b>MEASUREMENTS ON HEADSAIL</b>		
112	B13.3.2	Length of Luff (L)		
113	B13.3.3	Luff perpendicular (LP)		
114	B13.3.3	Area of headsail from $(L \times LP) / 2,000,000$ rounded up to $0.001\text{m}^2$		$3.310\text{m}^2$
115	B13.3.2	Top width		30