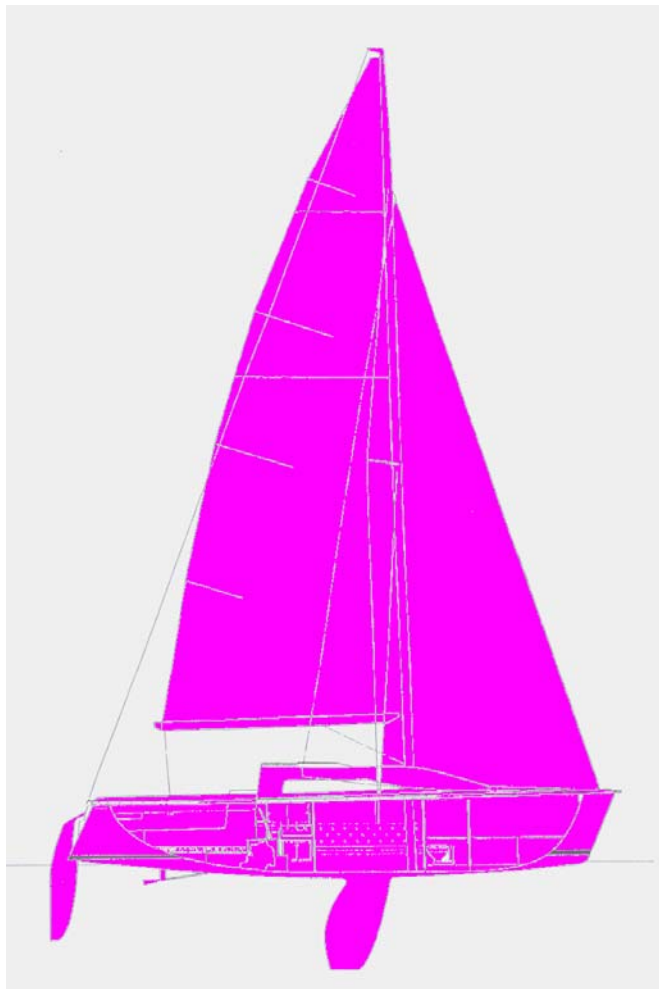


S97 YACHT ASSOCIATION OF WESTERN AUSTRALIA

CLASS RULES AND SPECIFICATIONS



Rev. No.	Page	Revision Details	Date
1	4, 5	Pentex added, Yacht presentation defined, crew weight to 550 kg.	10-6-1998
2	4	Additional 0.75oz spinnaker, nominated regatta sail inventory, spectra backstay	1-10-2003
3	5	Mainsail area increased, cloth restriction removed on main and jibs	18-10-2004

S97 YACHT ASSOCIATION OF WESTERN AUSTRALIA

CLASS RULES AND SPECIFICATIONS

1. GENERAL INTENT

The S97 is a one-design yacht intended to provide, at a reasonable cost, high performance racing for inshore and limited offshore events, while at the same time providing a simple and spacious accommodation for cruising. The rules of the Class have been framed to protect these objectives and to prohibit the use of expensive equipment.

It is fundamental to the interpretation of the Class rules and specifications that racing in S97 Class events shall be a test of skill and seamanship in boats which are essentially the same. Any boat which differs from the rules and specifications of the Class, or which is of the Class through exploiting a loophole in the Class rules, contrary to the spirit of the rules, shall not be accepted as eligible.

2. INTERPRETATION

The measurement of the boats and interpretation of the Class rules shall be the responsibility of the measurer appointed for a particular region. Any measurer requiring clarification on matters arising from the rules shall refer these to the State Association.

3. HULL, DECK, KEEL AND RUDDER

These shall be manufactured from moulds and patterns owned by Talton Yachts or their licensed agents. Each hull shall be fitted with at least two structural bulkheads, one located between 3,200mm and 3,500mm from the bow and one located between 8,150mm and 8,450mm from the bow. For measurement purposes, the bow does not include the flange length. The bulkheads shall be of not less than 9mm thickness plywood or equivalent weight material. Additional structure to comply with American Bureau of Shipping approved plans shall be fitted.

No filling or sanding of the hull or rudder, except for etching or painting and repair of damage is allowed. The keel may be filled and faired only to conform to the design shape.

No material may be removed from the hull, deck, keel or rudder except for installation of legitimate hardware. All holes cut in the hull and deck must be sealed and made structurally sound.

In the event of a dispute regarding the keel shape, it shall be checked to conform to templates which define the horizontal sections through the keel at heights 100, 550, 950 and 1,350mm above the base of the keel. These templates are to be shaped to the exact keel section at the leading and trailing edges, and are offset 5mm outside the keel section through the rest of the keel.

The templates are held at the required height, parallel to the base of the keel and touching the side of the keel at the trailing edge and at a centreline marked on the leading edge. The keel must not exceed the shape of the offset portion of the templates.

The distance between the offset portion of the template and the keel shall be 10mm max

The variation in length from the template shall be 10mm max

4. ACCOMMODATION

Minimum requirements for the internal fitout of the yacht shall be as follows:

- (a) Floorboards of not less than 9mm plywood fitted for a distance of 1,900mm fore and aft and the full width of the floorwebs or between the bunk or galley fronts.
- (b) The entire interior flocoated, painted or lined.
- (c) Two fixed berths constructed of plywood not less than 6mm or GRP not less than 3mm thickness with a minimum length of 1,905mm and width of 600mm. The plywood or GRP shall cover the bunk tops and sides. Two settee bunks with minimum length of 1,905mm and width of 450mm and with the same construction as the berths. An adequate double vee berth forward may be counted as one berth 600mm wide. Quarter berths count as single berths. All rule berths to carry mattresses of at least 75mm thickness filled with foam or a similar material.
- (d) Galley facilities including sink and stove.

5. MOTOR

Each yacht shall be fitted with an inboard motor located entirely behind a line 5,900mm aft of the bow. The motor must have at least 9hp (6.6kW) rated power.

The minimum weight of a sail drive motor is 110kg including gearbox, shaft and propeller. The minimum weight of a shaft drive motor is 95kg including gearbox. The manufacturer's dry weight specifications shall be used. All yachts with motors under this weight must add compensating weights located at least 5,900mm aft of the bow.

6. MAST AND RIGGING

Chainplates

Centre of deck at forward edge of non-skid to intersection of capshroud and deck.	For yachts measured prior to 30-6-96:	4,050mm min 4,125mm max
	For yachts measured since 30-6-96	4,025mm min 4,100mm max
Inboard edge of sidedeck non-skid to capshroud:		50mm min
Capshroud to lower shroud at deck level:		60mm max

Yachts which move their chainplates shall be remeasured.

Forestay Tang

Centre of deck at forward edge of non-skid to intersection of forestay and deck:	35mm min
For yachts measured prior to 30-6-96	85mm max
For yachts measured after 30-6-96	20mm max

Yachts which move their forestay fitting will be remeasured.

Mast Position

The mast shall be stepped on keel. Devices for moving the mast at deck level or keel step while sailing are not allowed.

Horizontal distance from the edge of the non-skid forward of the mast to the front side of the mast where it emerges from the deck collar and seal: 105mm min
125mm max

All spars must be made of aluminium.

Mast Section with Sail Track fitted.

Fore and aft 145mm min

Athwartships 85mm min

Weight per metre 3.65kg min

The mast must not be tapered below the IM point

The mast may be strengthened with aluminium sleeving from a point 350mm below "IM" to a point 700mm above "IM". No other mast sleeving is allowed except for genuine repairs to accidental damage.

Top black band height above top of boom: 11,400mm max

Underside of Spinnaker halyard led horizontal - height above sheerline abreast mast: 10,610mm max

Intersection forestay to front of mast ("IM") height above sheerline abreast mast: 10,610mm max

Cap shrouds attachment to mast. At "I" min
125mm above "I" max

All shrouds to attach to the same side of the mast as their chain plates (not crossed over)

Spreaders

Length from nearest side of the mast to the centre of the shroud, measured parallel to spreader centreline : 980mm min
1,020mm max

Height above sheerline abreast mast to centre of spreader: 5,850mm max
5,700mm min

Top of boom above sheerline abreast mast: 1,520mm max
1,420mm min

Boom

Shall be aluminium of optional section not exceeding 130mm depth with a minimum weight of 2.25kg/m

Length from aft side of mast to black band: 4,250mm max

Spinnaker Pole

Shall be aluminium of optional section

Length measured from centre line of mast to extreme end of pole when pole extended at 90 degrees to centre line of boat: 3,720mm max

Standing Rigging

All standing rigging to be stainless steel wire constructed from round strands. Rod and dieform wire are not allowed.

Backstay to be either 4mm min stainless steel wire or 4mm Dyneema/Spectra Sk75 and all other stays 5.55mm min. Running backstays are not permitted. Only the backstay may be adjusted while racing.

Running Rigging

Mainsail headboard or masthead halyard locking devices are not permitted and the weight of any sail shall be taken by the halyard secured less than 3,000mm above the sheerline.

7. SHEERLINE

Optional except for the following:

- (a) No running rigging may be led below the deck other than through the standard hatches.
- (b) Lever vang or vang tracks are not allowed.
- (c) Hydraulic equipment is not allowed.
- (d) One bow pulpit, the main frame of which shall be stainless steel tube of diameter not less than 25mm shall be fitted. Height to be 600mm min.

Extra fittings are allowed if they are not used for class racing.

8. SAILS

Sails shall be limited to one each of those specified below, except in the case of spinnakers where two (2) x #1 spinnakers shall be allowed. New sails are restricted to one of each per season. Damaged sails may be replaced at State measurer's discretion.

A maximum of one full inventory per boat shall be nominated per regatta (Metropolitan Championships excluded), one full inventory may consist of:

- One mainsail
- One #1 jib
- One #2 jib
- One #3 jib
- And combination of two class spinnakers

Mainsail

The mainsail may be loose or attached on the foot.

The luff and foot of the sail are not measured but must be set within the black bands on the mast and boom.

Luff P	11.40m max
Foot E	4.25m max

Girths

1/4	MGL	3.81m max
1/2	MGM	3.14m max
3/4	MGU	1.98m max
7/8	MGT	1.10m max
Headboard	HB	0.15m max
Battens:	A maximum of five battens approximately equally spaced are allowed.	
Material:	Unrestricted	

Jibs

#1 LP	4.88m max
#2 LP	4.40m max
#3 LP	3.15m max

Jibs material to be unrestricted after 1/5/2005

There are no restrictions on jibs with LP less than 2.66m

#1 Spinnaker

SL	11.13m max
SMW	6.70m max
Material (nylon)	32gr/mtr min

#2 Spinnaker

SL	11.13m max
SMW	6.70m max
Material (nylon)	64gr/mtr min

All sail measurements listed in Clause 8 are to be measured as specified in the IMS Rule.

9. MINIMUM YACHT WEIGHT

For the purpose of establishing an S97's weight, the yacht shall be fitted out in accordance with Clauses 3, 4, 5, 6 and 7.

The yacht shall be presented for weighing in an empty condition in accordance with the following:-

- (a) Free of sails, sheets or spare standing or running rigging.*
- (b) Fuel, water and other tanks empty and gas bottles removed.*
- (c) No food, cooking or catering utensils.*
- (d) No anchor, chain, warps, mooring lines or fenders.*
- (e) No clothing, bedding or personal effects.*
- (f) No safety equipment.*
- (g) No tools or spare parts.*
- (h) No loose gear.*
- (i) No spinnaker poles.*
- (j) Dry mattresses for four berths shall be on board.*
- (k) Batteries shall be on board and included in the boats weight and number and weight will be noted on certificate.*

If the yacht is underweight, compensating weights shall be fixed inside the hull above the keel of the yacht.

WEIGHT 3050kg

10. CREW

In S97 Class Racing Events, each yacht shall carry a maximum of **550 kg** of crew weight including the skipper.