

**THE RL24 OWNER'S ASSOCIATION OF AUSTRALIA**  
**RL24 CLASS RULES AND RESTRICTIONS**  
**AMENDED & REPRINTED JANUARY 2009**

**1. GENERAL**

RL24 yachts shall comply with the AYF definition for Trailable Yacht and must comply with the following in order to qualify for a Measurement Certificate.

**2. HULL**

Strictly one design.

Hull form to R.LEGG registered produced from mould approved by the designer.

**3. HULL WEIGHT**

The completed hull, dry and in sailing condition complying with the AYF definition for "Trailable Yacht" shall not weight less than 454kg.

This weight includes :

- Those fittings which are bolted, riveted, glued or laminated to the hull for the purpose of attaching fittings for running rigging.
- Rudder pintles
- Winch tackle for raising keel.
- Any plates or brackets for mounting auxiliary motor.
- Sheet winches if fitted.
- Instruments which are permanently mounted.
- All built-in furnishings

Items that shall be removed for weighing include:

- Keel, rudder box and tiller.
- Spars and all standing and running rigging.
- Auxiliary motor and fuel.
- Readily removable furnishings such as bunk cushions, marine toilet, stove, floorboards and similar sundry equipment.

Any ballast weight required to bring a hull up to minimum weight shall be securely fixed as near as practicable to a position 240mm above the keel line and 4000mm aft of the top of the stem.

**4. DECK**

No craft shall be registered as an RL24 which has substantial modifications to the deck unless such modifications have been approved by The RL24 Owner's Association of Australia. This approval shall be sought prior to construction.

**5. CABIN HEADROOM**

The shortest distance from the underside of the cabin top to the inside hull skin or moulded floor at the yacht's longitudinal centreline shall be 1.3 metres minimum.

**6. KEEL**

The keel shape is unrestricted. Minimum keel weight shall be 100kg.

**6. RUDDER**

Unrestricted.

**7. MAST**

The mast height measured from the cabin top to the centreline of the halyard sheave shall be 8.3 metres maximum. Fore and aft dimension shall be 120mm maximum excluding normal fittings.

**8. SPINNAKER POLE**

The spinnaker pole length including fittings, measured from the foreside of the mast shall be 2670mm maximum.

## 9. SAILS

- Number of sails

The number of sails per boat is unrestricted, but only one mast and one suit of sails can be used during racing in a State or National titles series. The suit is to consist of no more than one mainsail, two headsails and one spinnaker.

- Working sail area

The combination of headsail and mainsail in use at any one time shall not exceed 20 square metres measured area. The sail plan is otherwise unrestricted.

- Spinnaker

The spinnaker shall be symmetrical when folded along its centreline with the leeches together. Maximum measured area shall be 20 square metres. Shape is otherwise unrestricted.

- Sail Area Measurement

The measurement of sail area for the RL24 is based on the Australian Yachting Federation Racing rules 1973-77, Addendum E, Section IV. The basic method for mainsail and jib is measure lengths of luff, leech and foot (these dimensions are used to calculate the 'main triangle area') and the offsets, or rounds of the luff, leech and foot, which along with the first three dimensions are used to calculate the areas of the 'rounds', which are added to the main triangle area to make the total. A hollow leech, as on some jibs, may be subtracted.

Figure 1. shows the measurements and figure 1a, 1b, & 1c show the detail of where the measurements are taken. The sails are measured dry, staked out on a flat surface with battens in place and with enough tension to remove wrinkles.

A spinnaker is measured folded down its centreline with the luff and foot measurements taken around the luff and foot. The half height, half width is as shown in figure 2.

## 10. CREW

Crew unrestricted.

## 11. HIKING

No trapeze or similar device shall be used. Hiking is permitted, provided that when hiking in the transverse position no part of the crew's body between the middle of the thigh and the feet shall be outboard of the sheerline. When hiking in the longitudinal position, at least one full arm and one full leg shall be inboard of the sheerline.

## 12. SAFETY

At all times RL24 yachts shall carry the appropriate safety equipment stipulated by Yachting Australia RRS requirements, or State yachting authority requirements which are current at that time.

\*Notwithstanding the above, when required to be carried for racing the minimum engine weight shall be 20kg. Any ballast weight required to cover any shortfall in engine weight shall be carried as fixed ballast in the stern compartment of the hull. \*(Amended RL24 AGM Dec.30<sup>th</sup> 2008)

## 13. BUOYANCY

Buoyancy in the form of sealed compartments or closed cell foam with a minimum volume of .55 cubic metres must be approximately evenly distributed fore and aft, and athwartships. Closed cell foam should not be used below bilge level.

## APPENDICES

AT RL24 REGATTAS:

1. KEELS – Swing keel division shall be restricted to yachts whose centrecases are as originally constructed prior to 1992.

Keels shall not be lifted beyond a point which leaves exposed 600mm vertical depth of keel, and a locking device shall be fitted to prevent raising beyond this point.

\*Swing keel RL24's fitted with keel case fillers, blocks, flaps or similar devices, or which have modifications to the keel itself, to fill the centre case slot to reduce drag while sailing, will (for the purpose of handicapping and divisions at championships) be treated as drop keels. \*(Amended RL24 AGM 30<sup>th</sup> Dec.30<sup>th</sup> 2008)

2. WIND SPEED FOR RACING (Recommendation only, not part of the approved class rules and a guide only to sailing committees).

The maximum average wind speed recommended by the class association is 30mph (approximately 48kph or 26knots)

# SAIL AREA MEASUREMENT

X, Y & Z Offsets at the 1/4, 1/2 & 3/4 points of B.

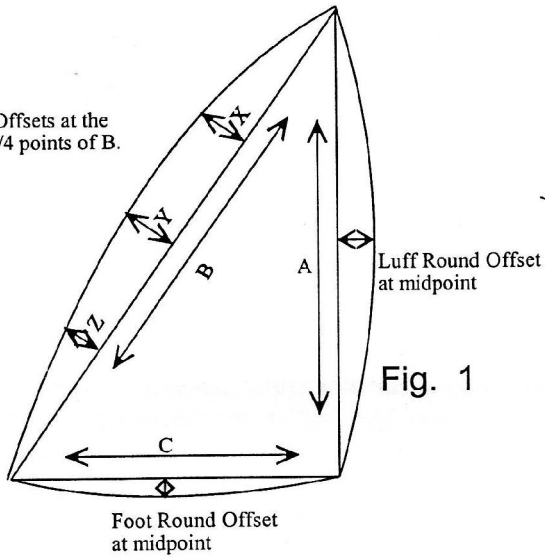


Fig. 1

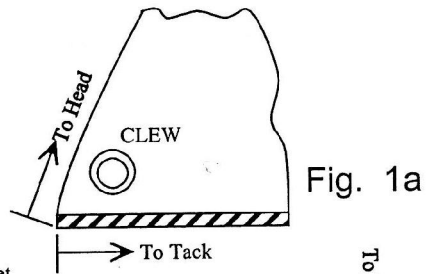


Fig. 1a

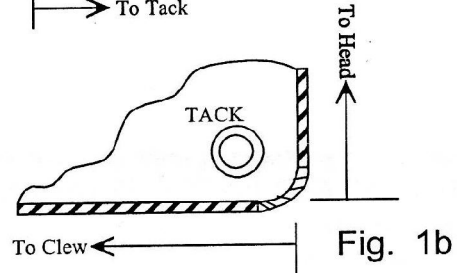


Fig. 1b

Bolt ropes are excluded except that bolt rope on foot is measured if sail is loose footed.

AREA OF MAIN TRIANGLE =  $\sqrt{S(S-A)(S-B)(S-C)}$   
 where  $S = \frac{A+B+C}{2}$

Area of Luff & Foot rounds = Chord x Offset x 0.666  
 Area of Leech round (roach) =  $B/4(1.16X+Y+1.16Z)$

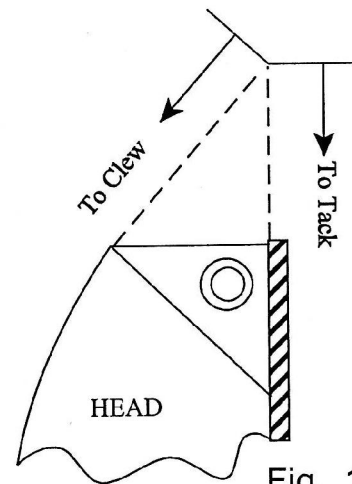


Fig. 1c

1/2 HEIGHT 1/2 WIDTH is shortest distance to centerfold from 1/2 height of luffs.

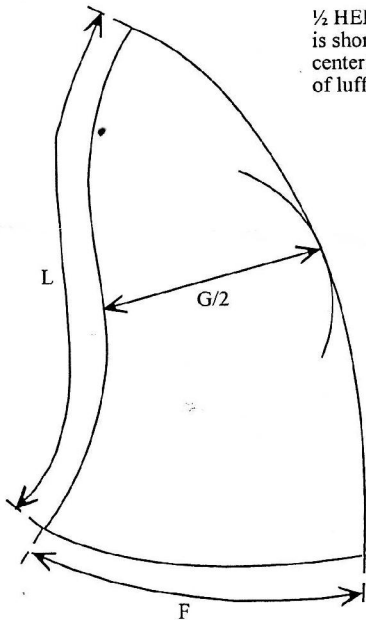


Fig. 2

AREA OF SPINNAKER =  $F \times L + 2/3(G-F)L$