

## **L CLASS MULLET BOAT RESTRICTIONS**

It is the intention of these restrictions to produce an able type of vessel, and to perpetuate the modern type of mullet boat.

The Ponsonby Cruising Club Inc. as ruling body reserves the right to refuse registration of any craft which in it's opinion is not built to the spirit and intent of the requirements laid down herein.

The Ponsonby Cruising Club Inc. shall appoint a panel of up to 5 Measurers at each Annual General Meeting.

3 Measurers shall be present throughout a boat's measurement, the Measurers decision must be by a majority.

The Measurers shall only certify a boat based upon the rules, should a boat deviate from the rules the measurers shall provide to the PCC Management Committee a list of the deviations and their recommendations for a ruling.

The ruling of the Management Committee shall be final.

"That in the event of any owner wanting to introduce an alternative or new idea to his yacht that is a departure from the existing rules, the Mullet Boat Measurers may make recommendations to the Management Committee to amend the rules by calling a Special General Meeting.

No innovations can proceed until the rules pertaining to the alternative or new idea are changed."

An owner shall supply the measurers, in writing, with details of any planned deviation from the current rules.

If the Measurers are unanimous in their ratification this ruling shall be presented to the Management Committee for verification.

If the Measurers are not unanimous a Special General Meeting shall be required.

No deviation shall proceed until the rules pertaining to the alternative or new idea are ratified.

**There shall be no more than one Special Meeting per calendar year to vote on alterations to the Mullet Boat Restrictions.**

### **Notice of Intention:**

Written notice of intention to build a new boat, together with plans and specifications and a measurer's fee of \$5.00 must be given to the secretary of the Ponsonby Cruising Club Inc. at least one month before construction is commenced.

During construction the measurers must be afforded reasonable facilities for the performance of their duties.

A notice of intention to build utilizing any method of construction, or any materials other than those specified in the appendices annexed hereto shall be submitted to the measurers complete, with full specifications, engineer's or designer's calculations, and such other information as the measurers may require. This will be provided by the applicant.

Construction may not commence until the measurers unanimously approve the new method or materials.

## **PRINCIPAL HULL DIMENSIONS**

### **General:**

All L Class hulls are to be of a round bilge type, with no hollow sections forward of amidships, no hollows in the underwater profile, no reverse sheer, and no hollow sections aft of amidships above the waterline.

Hulls may be built of any material or method of construction complying with the appendices annexed hereto.

**Note:** Imperial measurements used herein are for example only, and do not form part of these restrictions.

### **Length:**

Overall:	6.121m	(20ft 1")	minimum
	6.706m	(22ft 0")	maximum

**Weight:**

Hull weight shall be measured on completion, or after any substantial alterations.

All hardware and fittings shall be excluded.

Hull and deck weight shall be fairly distributed to the discretion of the measurers, and any make weight shall be evenly divided into two weights, to be attached to the deck on the centerline – one 0.305m (1') aft of the stem, and the other 0.225m (9") forward of the stern.

All hulls shall weigh a minimum of 816.48 kg (1800 lb).

**Ballast:**

All boats must carry a minimum of 1016.064 kg (2240 lb) of ballast internally. This must be stowed securely under the cabin and/or cockpit sole.

**Beam:**

At the widest part of the hull:-

2.362m	(7ft 9")	minimum
2.743m	(9ft 0")	maximum

The maximum beam of the boat shall be no further aft than 75% of the length of the hull. The maximum beam of the transom shall be not greater than 88% of the actual beam of the hull. The transom shall be fully enclosed and conform to the camber of the aft deck. A small opening - to be named tiller aperture - will be allowed and self draining cockpits to have suitable drain holes.

The maximum beam of the boat shall be no further aft than 75% of the length of the hull.

The maximum beam of the transom shall be no greater than 88% of the actual beam of the hull.

**Depth:-**

At midships, for all boats of minimum beam, the minimum moulded depth shall be 0.838m (2ft 9").

A third of any increase in beam over minimum shall be added to the minimum depth, so that boats with a maximum beam have a minimum depth of 0.965m (3ft 2").

The moulded depth is measured from the rebate line of the inner garboard to the top of the gunwales.

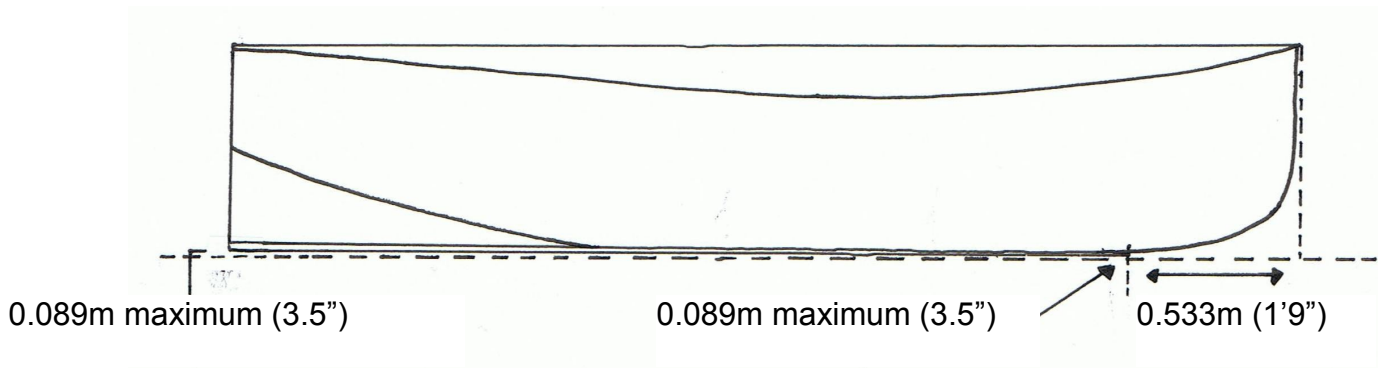
### **Camber of Profile:**

The maximum camber of the underwater profile shall not exceed 0.089m (3ft 5").

### **Method of Measuring Camber:**

1. Set hull level with designated water line.
2. Measure aft 0.533m (1ft 9") along deadwood from plumb below stem
3. The camber should not rise above 0.089m (3ft 5") at either end above a straight line drawn between (0.533m (1ft 9") aft of the stem to the aft of the deadwood (see attached diagram 1).

**Diagram 1. Measuring Profile Camber**



### **Deadwood:**

Shall not commence forward of the midships station, and shall extend to the plumb of the transom.

The thickness of the deadwood from its commencement to within 1.219m (4ft 0") of the stern shall be not less than 0.095m (3ft .75").

For the last 1.219m it may be tapered so that right aft it is no less than 0.038m (1.5") thick.

**KEEL BATTEN:** No more than 0.022 m (7/8") and no less than 0.019m (0.75") thick.

The keel batten shall extend from right aft to within 0.533 m ( 1ft 9") of the stem.

RUBBING STRAKES No more than 0.022m (7/8") wide from the side of the hull and no more than 0.038m (1.5') deep. No sail may be sheeted therefrom.

DECK Must continue for 3.658m (12ft) from the stem. There may be no openings in the deck forward of the mast. Flush decks and cabin tops must be a minimum of 0.305m (1ft) above the minimum moulded depth at midships.

SIDE DECKS Not less than 0.406m (16") wide, recommended wider.

AFT DECK Not less than 0.406m wide.

COAMINGS Minimum height of 0.127m (5") above side decks.

STEM Width at sheer shall be 0.225m (9") maximum.

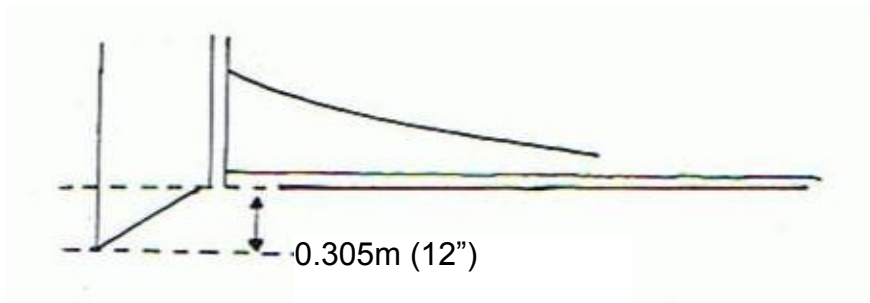
SOLE Shall extend to the stringers of frames and shall commence not more than 0.457m (18") from the transom and extend to not less than 0.914m (3ft) from the stem. Minimum area of 6.503m<sup>2</sup> (70sq ft). Minimum thickness of 0.012m (0.5") plywood in cockpit area. Balance may be of 0.010m (3/8") plywood.

CENTRECASE The centre case slot shall be 0.022m (7/8") wide. The top of the Centre case shall be at least 0.305m (1ft) above the ballasted waterline.

CENTREPLATE May be made of solid steel only, swung on a king bolt passing through a hole in the forward lower corner of the plate. The king bolt may not be moved while sailing. The centre plate shall have parallel sides to within 0.012m (0.5") of the edges.

RUDDER shall be of a barn door type and shall be hung on gudgeons on the aft extremity of the boat. No part of the rudder shall show outside of a straight line from the deadwood to 0.305m (12") below a continuation of the line of the keel batten to the aft edge of the rudder, see diagram 2.

**Diagram 2: Rudder**



TILLER APERTURE      Must be above the top of the centre case.

### MAST, SPAR AND RIGGING RESTRICTIONS

All spars may be constructed of wood or aluminium alloy only.

OVERALL LENGTH OF RIG      shall not exceed 175% of L.O.A hull (i.e. maximum 11.735m (38ft 6") for a 6.706m (22ft) hull from forward end of bowsprit to aft end of boom.

MAST      may be constructed of wood or aluminium alloy with a maximum hoist of 12.802m (42ft) above L.W.L. to the centre of the sheave. The mast must be stepped on a mast step fixed to the keelson and must be non-rotating. Mast spreaders/crosstrees may not extend beyond the beam of the hull no more than two sets of spreaders between forestay and deck, the mast may be tapered, such taper may not include more than 3m of hollow.

GAFF OR GUNTER RIGS      No part of the sail plan is to be more than 12.802m above L.W.L.

FORESTAY      Is to attach no less than 1.524m (5ft) below maximum hoist.

SPINNAKER POLE      Maximum overall length to be 6.706m (22ft) and may be worn from mast only.

JOCKEY POLE      Maximum 1.981m (6ft 6") in length from mast to outside sheave.

BOWSPRIT      Shall be a single spar fastened to the foredeck or into a watertight recess flush with the deck.

## **SAIL RESTRICTIONS**

### **GENERAL:**

All existing sails, any new sails or any substantially recut sails must comply with these restrictions.

Such sails must be registered with the Ponsonby Cruising Club Inc. All sails must be flown from the mast only and may not be sheeted outside the extremities of the hull nor from any batten affixed to the hull. Watersail and ringtails are not allowed,

All new sails must be dated, measured and signed by the Official Sail Measurer. If not complying by this the boat may be disqualified.

### **MATERIALS:**

Sails containing aromatic polyamides and carbon fibre and other high modulus fabrics (including Kevlar) shall not be allowed. It is recommended that this rule be revised annually and, if any change be deemed necessary, it will be implemented twelve (12) months from date of the voted meeting.

### **MAINSAIL:**

Method of measurement:

$$\frac{\text{Luff} \times \text{foot}}{2} \quad \text{plus (max. roach} \times \text{leach} \times 0.75) = \text{area}$$

Maximum area: No more than 51 sq m (550 sq ft)

Headboard: Maximum fore and aft measurements shall not exceed 0.203m (8")

Battens: No more than nine (9) battens total. Full length battens allowed.

Numbers: Sail numbers and L. Class insignia shall stand 0.46m (18") high and must be clearly visible.

Reefs: All mainsails shall have a minimum of two (2) reefs, the lowest of which shall be not less than .076m (2ft 6") above the foot.

Minimum cloth weight in at least 50% of the leach area shall not be less than 252gm/sq.m (5.4oz US). A lighter fabric no less than 218gm/sq.m (5oz US) may be used in the luff area.

Trisails are allowed.

### **GENERAL:**

Headsails may be either piston hanked to a forestay or flown free from the bowsprit. Each boat must carry a storm gib or staysail of a maximum area of 7.43sq.m (80sq ft)

and of a minimum cloth weight of 252gm/sq.m (6oz US). The minimum cloth weight for headsails is 166gm/sq.m (3.8oz US) dacron or 100gm/sq.m (2.3oz US) mylar.

SPINNAKERS & LEADERS: to be flown from the spinnaker pole only.

All spinnaker type sails over 500sq ft must be on equal luff length with a 50mm tolerance. A boat may carry no more than two (2) double luff spinnakers and no more than two (2) single luff leader type spinnakers.

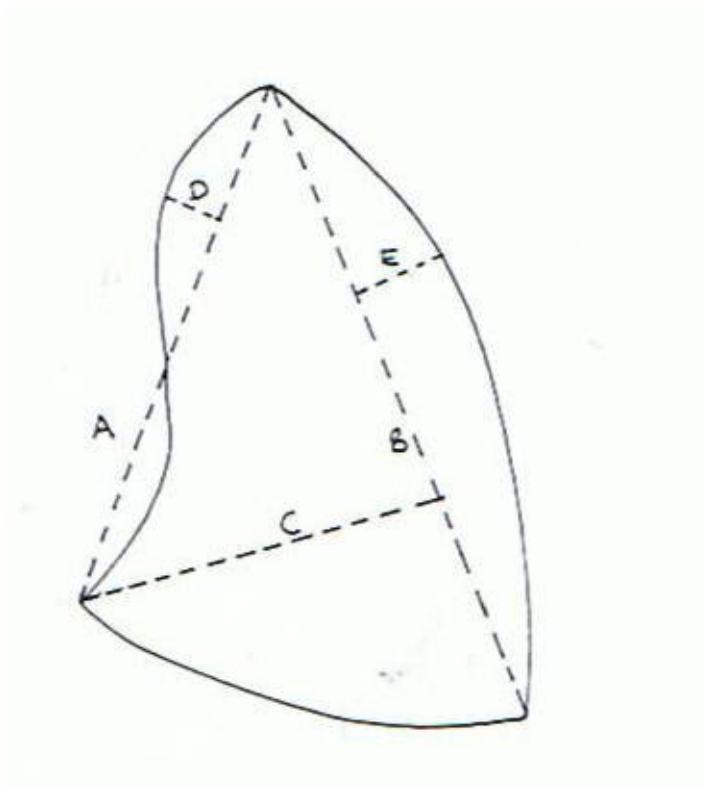
AREAS OF SPINNAKERS: No spinnaker shall exceed 74.32sq.m (800sq ft) in area. The minimum cloth weight is 0.215gm/sq.m (1/2oz US).

No leader shall exceed 46.45sq.m (500sq ft) in area, the minimum cloth weight is 0.43gm/sq.m (1oz US).

ALL SPINNAKER TYPE SAILS TO BE MADE OF NYLON.

## **METHODS OF MEASUREMENT**

Diagram 3.



a Spinnaker

1. Fold the sail in half.
2. Measure head to clews. (a)
3. Measure head to half foot. (b)



4. Measure L.P. from clews to line 'B'. (c)
5. Measure maximum luff round. (d)
6. Measure maximum round to centre seam. (e)
7. Apply formula:  $B \times C = \underline{\hspace{2cm}}$

$$+ 4 \frac{(A \times D)}{3} = \underline{\hspace{2cm}}$$

$$+ 4 \frac{(B \times E)}{3} = \underline{\hspace{2cm}}$$

Maximum = 74.32 m<sup>2</sup>  
(800sq ft)

## LEADERS

$$\frac{\text{Luff} \times \text{L.P.}}{2} + (\text{Maximum roach} \times \text{leach}) = \text{AREA.}$$

(L.P. = longest perpendicular  
as defined by I.O.R.)

## GENERAL RESTRICTIONS

TRAPEZES No trapezes or stacking straps or any device to assist crew weight to stack beyond the hull may be fitted.

STANDING RIGGING All standing rigging must remain unadjusted while sailing.

SAILING AIDS No electrical sailing aids except log and lights may be fitted.

HYDRAULICS No hydraulic devices for the adjustment or trimming of the mast, rig, sails or centreplate may be fitted.

ANCHOR All boats must carry anchor weighing no less than 10kg and 6.706m (22ft) or more of 9.5mm (5/16") metal chain. A suitable warp, minimum size 10mm, 20m long must be attached to this.

HATCH COVERS All moveable hatch covers must be carried in place whilst racing.

## APPENDIX 1

## **MINIMUM CONSTRUCTION RULES FOR TIMBER L CLASS**

SCANTLING                Scantling edge moulding not less than 6mm (0.25") radius.

WEIGHT                Solid timber skinned externally only 816.48kg (1800 lb), see general restrictions for further details.

KEELSON                0.200m x 0.070m (8" x 2.75")

GUNWALES            0.75m x 0.019m (3" x 0.75")

STRINGERS            0.44m x 0.019m (1.25" x 0.75") at a maximum of 0.150m (6") centres.

PLANKING            Minimum 2 skin laminated planking not less than 0.016m (5/8") thick.

DEADWOOD            Solid timber.

CENTRECASE        0.012m (0.5") ply fastened to .0150m x 0.038m (6" x 1.5") grounds with stiffeners added at knee positions. Inside of the case must be glassed.

FLOOR TIMBERS        0.140m x 0.038m (5.5" x 1.5") not less than 8 floors, 4 of which must carry knees fastened to the centre case. Not less than 4 knees supporting the case (2 each side) and one floor in the wake of the centre case. The sum total of floor timbers must be not less than 7.62m (25ft) in length.

MAST STEP            Sectional area of 0.012m<sup>2</sup> (18sq ") spread over 3 floors at not more than 0.300m (1') centres.

DECK BEAMS AND DECK        1. 0.050m x 0.44m (2" x 1.25") beams at not more than 0.355m (14") centres with a 0.012m (0.5") ply deck.

OR

2. Cabin top can be 0.019m (0.75") moulded ply with no deck beams.

## **FORE AND AFT STRIP-PLANKED HULLS**

STRIP - PLANKING        Must be a minimum of 0.018m wood adequately glassed to the satisfaction of the measurers, to a minimum thickness of 0.019m (.075").

LAMINATED RIBS        Must be 0.045m x 0.014m at 0.700m centres and epoxy glued.

SELF – DRAINING COCKPIT    Where sole extends to and is fixed to the hull, laminated ribs are not required in that area.

CABIN TOP            May be strip – planked to equal the hull construction.

## **FORE AND AFT CARVEL PLANKED HULLS**

PLANKING Must be a minimum of 0.019m (0.75") thick.

RIBS Must be 0.045m x 0.019m (1.25" x 0.75") at .0200m (8") centres.

### **MINIMUM CONSTRUCTION RULES FOR FIBRE GLASS L CLASS**

WEIGHT Fibre glass balsa core and solid glass boats 907.2kg

(2000 lb)Minimum see general restrictions for further details.

MATERIALS Balsa or foam sandwich, hand laid glass reinforced plastic of minimum thickness 0.019m (0.75")

HULL Outer skin Gell Coat minimum 124kg per m<sup>2</sup> (5sq ft to 1 lb 6oz)

SANDWICH Balsa or foam 0.012m (0.5") evenly spread over entire area of hull other than where fittings are attached to or through hull.

INNER SKIN 3 oz chopped mat, 18 oz woving roving laid under all stress points such as mast step to gunwale, back stay supports, gunwale through keel to gunwale.

FLOORS Not less than 8 floors ex solid timber 0.045m (1.75") fitted, glued to hull and glassed right over. One floor fitted in wake of case. Refer mast step.

CENTRECASE Either wood or glass ply minimum thickness 0.012m (0.5") glassed inside. Glass case minimum thickness 18oz woving roving, 10 oz chopped mat: Substantially braced, glued and laminated to hull with minimum 10 oz woving roving.

BULKHEADS Permanent bulkheads of 0.012m (0.5") ply to be fitted to hull and glassed from garboards to gunwale at positions (minimum section of 0.75m<sup>2</sup> (3sq')). Positions: 1. Immediately aft of mast. 2. Vicinity of aft end of cabin top.

GIRDERS Permanent girders to run forward from aft end of case to mast step fitted and glassed to hull in position as for bulk fronts, minimum size 0.125m x 0.012m (5" x 0.5").

MAST STEP To be a minimum section of 0.230m x 0.050m (9" x 2") carried over 3 floors spaced at no more than 0.305m (12") centres.

FLOORING Refer general restrictions. A beam shelf of 0.050m (2") x floor thickness is to be glassed to hull for a total length of 6.706m (22ft) each side of the boat.

FORE DECK Minimum 10oz chopped mat, 18oz woving roving. Beams: 0.062m x 0.032m (2.5" x 1.25") to be laminated in at 0.355m (14") centres to mast entry. Mast hole to be cut out and produced as sample.

CABIN Minimum 10oz chopped mat, 18oz woving roving and 0.012m (0.5") Balsa or foam sandwich for minimum of 2.787m<sup>2</sup> (30sq ft). On completion of above cabin and deck must weigh a minimum of 136kg (300 lb). Cabin and decks are to be glued, screwed or bolted to hull, glassed under the deck to the hull, with a minimum of 6 oz chopped mat. Cappings and rubbings strakes fitted.

KEEL  
by the measurer.

Keel of glass boats is to be filled to batten fairness as approved of