

# ELLIOTT 5.9 CLASS ASSOCIATION

## CLASS RULES

- as adopted by the Elliott 5.9 Class Association ("the Association") at the AGM, Turangi, January 1992
- as modified in respect of Rule 7.2 at the Extraordinary General Meeting, Wellington 12 September 1992
- as further modified in respect of mast rigging and sail measurements at the AGM, Nelson, January 1994
- as further modified in respect of Rules 6.1, 13.1.1, 13.2.5, 13.2.7 and 13.3.6, at the AGM, Bucklands Beach Yacht Club, January 1995
- as further modified in respect of Rules 9.4.1, 10.1.1, 10.1.2, 10.1.3 and 10.1.4 at an Extraordinary General Meeting at Lake Aviemore on 23 October 1999
- as further modified in respect of General Rule 6 at the AGM, Wellington, January 1999
- as further modified in respect of Rules 13.2.3, 13.2.5, General Rule 2(e), Appendix II and Appendix III at the Annual General Meeting; Wellington, February 2002
- as further modified in respect of Rules 3; 3.2.2; 4.1; 5.3; 6.4; 13.1.1; 13.1.2; 13.2.3; General Rules; Appendix I, II and III at the Annual General Meeting; Gulf Harbour, January 2003.
- as further modified in respect of Rules 1.3; 1.4; 3.2.1; 3.2.3; 3.2.4; 3.3; 3.4.1; 3.4.2; 11.2; 13.1.2 and Appendix I at the Annual General Meeting; Waikawa Bay, February 2004.

### 1.0 GENERAL

- 1.1 The class shall be known as the Elliott 5.9 trailer yacht.
- 1.2 The intention of these rules is to ensure that the Elliott 5.9 trailer yacht is standard in its design and construction and that all yachts built are as alike in all respects affecting speed and performance so that racing success shall be determined predominantly by the skill of the crew.
- 1.3 These rules shall be read in conjunction with the measurement diagrams (Appendices I to IV) and the Measurement Form attached to these rules. In the event of any discrepancy between the rules, the diagrams and the Measurement Form then the matter shall be referred to the Association for determination.

- 1.4 All yachts shall be built in accordance with the class rules and measurement requirements as set out in the measurement diagrams and the Measurement Form.
- 1.5 Each yacht must race with a crew of three and must not change the members of the crew during any race or series, unless through injury or sickness.
- 1.6 Class officials will be elected by the E5.9 Owners Association at the AGM held at each NZ National Contest.
- 1.7 To be eligible to race in recognized class races, each yacht must have at least one owner who is a financial member of the E5.9 Owners Association for the current financial year.
- 1.8 The financial year of the Association shall be 1 June to 31 May in the following year.
- 1.9 Only one owner per yacht who is a financial member may vote on any motion.
- 1.10 The Class Rules may only be altered at an Annual General Meeting or Extraordinary General Meeting. A minimum of three weeks notice shall be given for the Annual General Meeting and any Extraordinary General Meeting. A quorum of 10 owners who are financial members of the Association shall be required at such meetings (either in person or by proxy, and only one vote per yacht). Any financial member may appoint a proxy to vote on such members' behalf. The onus shall be on the proxy holder to satisfy the meeting as to the holder's standing with respect to voting rights.

## **2.0 BUILDERS**

- 2.1 All hulls, decks, centre-boards and lead ballasted keels shall be built and supplied by Eagle Yachts Limited or such builder or builders as may be appointed from time to time by the Association.
- 2.2 The appointed builder or builders shall be charged with the responsibility to ensure that all boats shall be built in accordance with the class rules and measurement requirements. No deviation shall be made by the builder or builders from the class rules and measurement requirements without the prior written approval of the owners Association.

## **3.0 REGISTRATION & MEASUREMENT CERTIFICATE**

- 3.1 No yacht shall take part in class racing unless it has a valid Measurement Certificate issued in the owner's name.
- 3.2 The first owner of a new yacht may obtain a Measurement Certificate in the following manner:
  - 3.2.1 The owner shall obtain from the builder or from the Association a Measurement Form and an Application for Measurement Certificate.
  - 3.2.2 The owner shall apply to the YNZ or other national authority for registration as a trailer yacht and for sail numbers.

- 3.2.3** The owner shall complete the Application for Measurement Certificate and shall obtain completion of the Measurement Form by a measurer appointed by the Association.
- 3.2.4** The owner shall send the completed Measurement Form and Application for Measurement Certificate to the Association together with any registration fee that may be required or levied by the Association.
- 3.3** The change of ownership of a yacht shall invalidate the Measurement Certificate but shall not of itself necessitate that the yacht be re-measured for the issue of a new Measurement Certificate to a new owner.
- 3.4** A second or subsequent owner of a yacht may obtain a Measurement Certificate in the following manner:-
- 3.4.1** The owner shall obtain from the Association an Application for Measurement Certificate and shall complete and return the form together with the Measurement Certificate held by the previous owner and together with any registration fee that may be required or levied by the Association to the Association.
- 3.4.2** On receipt of the Application for Measurement Certificate, the previous Measurement Certificate and the appropriate fee the Association shall issue a new Measurement Certificate to the new owner.
- 3.5** It shall be the owner's responsibility to ensure that no alterations are made to the yacht, the spars, the sails nor the equipment belonging to the yacht which might invalidate the Measurement Certificate.

#### **4.0 IDENTIFICATION MARKS**

- 4.1** The yacht's mainsail shall have the official E5.9 emblem on the top third of both sides of the sail and the YNZ Registration No (in accordance with ISAF RRS 77) below the emblem.

#### **5.0 MEASUREMENT**

- 5.1** The Association shall appoint an official measurer or measurers who shall, when requested by any yacht owner, measure a yacht by completing a Measurement Certificate in the form prescribed from time to time by the Association. Only Measurement Certificates signed by an official measurer appointed by the Association shall be accepted by the Association or any race committee as evidence of a yacht's compliance with these class rules and measurement requirements.
- 5.2** The measurer shall report on the measurement form anything which the measurer considers to be a departure from the intended design and construction of the yacht.
- 5.3** A measurer may not measure a yacht's spars, sails and equipment owned by himself, or in which he is an interested party or has a vested interest, except in the case where the measurement is witnessed and endorsed by an independent Elliott 5.9 yacht owner.

- 5.4 All yachts and their equipment shall be liable to re-measurement at the discretion of the Association or any race committee.

## **6.0 HULL, DECK & KEEL EQUIPMENT**

- 6.1 The hull, deck, centre-board and ballasted keel shall be made of glass re-enforced plastic by the appointed builder. The shape and construction of the hull, deck, centre-board and ballasted keel shall not be altered or modified, braced or stiffened in any way that may affect the basic performance or sea-worthiness of the yacht, except on consultation and written approval with the appointed builder.
- 6.2 Notwithstanding the requirement for the manufacture of hull, deck, centre-board and ballasted keels from glass re-enforced plastic, any yachts with hull, deck and centre-board manufactured from wood prior to 30<sup>th</sup> June 1984 shall not thereby be disqualified from measuring.
- 6.3 The minimum weight of hull, deck, centre-board and ballasted keel together with permanent deck fittings (but without spars, rudder, running rigging and associated equipment) shall be 580 kilograms.
- 6.4 Forward stacking strap attachment points must be positioned inboard of the deck ridge, or where a yacht has a wooden deck, must be positioned no more than 582mm from the center line of the yacht.

## **7.0 CENTRE-BOARD**

- 7.1 The centre-board and ballasted keel shall be built and supplied by the appointed builder and have the following dimensions:-
- 7.1.1 A maximum length under water of 1.5 metres.
- 7.1.2 A maximum width between the leading edge and trailing edge of 340mm (plus or minus 5mm).
- 7.1.3 The lead ballast must be cast in solid lead from the plug held by the appointed builder and must not be altered other than for normal fairing. The fairing from the top of the ballasted keel to the leading edge of the centre-board shall be no more than 30mm radius.
- 7.2 The centre-board and ballasted keel must be capable of being lifted and lowered through the centre case with a device or mechanism that shall be either permanently fixed to the hull and centre-board/ballasted keel or, if removable, be carried on the yacht at all times during racing. A keel wire may form part of the lifting device or mechanism, but it shall not be compulsory for centre-boards to have such keel wires fitted to them.

## **8.0 RUDDER ASSEMBLY – refer Appendix IV**

- 8.1 The rudder blade may be constructed of glass re-enforced plastic, foam or wood sheathed in fibre-glass, or wood.
- 8.2 The minimum weight of the rudder blade shall be 5.25 kilograms.

- 8.3 The rudder blade shall be constructed in accordance with the specifications and dimensions set out in Appendix IV of these rules, with tolerances of plus or minus 5mm.
- 8.4 The rudder blade shall be positioned in relation to the transom of the yacht as shown in Appendix IV of these rules. The rudder blade must swing up or down in the rudder stock and, when the yacht is racing, the rudder blade must be fully down and locked in position.

#### **9.0 MAST – refer Appendix III**

- 9.1 The mast shall be made of aluminium alloy built of fosters or spar specialties 14 guage x 3 inch section.
- 9.2 Measurements from the heel of the mast shall be taken from the bottom of the heel fitting including any tabernacle or pivoting system and mounting structure fitted.
- 9.3 The mast may be tapered up to 50% of its original diameter in the top 2 metres of its length only.
- 9.4 Two distinctively coloured bands not less than 20mm wide shall be permanently marked on the mast as follows:-
- 9.4.1 A lower band having its upper edge not more than 580mm from the heel of the mast.
- 9.4.2 An upper band having its lower edge not more than 7720mm from the upper edge of the lower band.

The mainsail luff shall not be set outside the limits of the inside edges of the bands.

#### **10.0 MAST RIGGING – refer Appendix III**

- 10.1 The standing rigging shall be made of steel wire rope and shall consist of not more than:
- 10.1.1 Two main shrouds of not less than 4mm diameter attached to the mast at a height not more than 6600mm nor less than 6390mm from the heel of the mast. The effective length of the main shrouds shall not be adjusted during racing.
- 10.1.2 One permanent forestay of not less than 4mm diameter attached to the mast at a height not more than 6600mm nor less than 6390mm from the heel of the mast. The effective length of the forestay shall not be adjusted during racing.
- 10.1.3 The main shrouds and forestay shall be attached to the mast with a vertical separation of not more than 100mm from each other.
- 10.1.4 Two lower shrouds of not less than 4mm diameter attached to the mast at a position 3,300mm (plus or minus 50mm) from the heel of the mast.

- 10.2 A set of spreaders shall be attached to the mast at a position 3,330mm (plus or minus 50mm) from the heel of the mast.
- 10.3 The spinnaker halliard exit (measured from the top of the sheave) shall be at a height not more than 6870mm from the heel of the mast.
- 10.4 Other than rigging screws, no rigging or fittings shall be attached to the mast or used for the purpose of controlling or adjusting the bend of the mast or the tension of the shrouds.

## **11.0 BOOM**

- 11.1 The boom shall be made of aluminium alloy and shall be straight, with a tolerance for a permanent set due to distortion of 20mm.
- 11.2 A distinctively coloured band of not less than 20mm wide shall be permanently marked on the outer end of the boom having its forward edge not more than 3800mm from the downward projection of the aft face of the mast. The mainsail foot shall not be set outside the limit of the inside edge of the band.
- 11.3 The boom shall not be capable of being set with the projection of its upper edge below the top of the lower band on the mast.

## **12.0 SPINNAKER BOOM**

- 12.1 The spinnaker boom shall be made of aluminium alloy.
- 12.2 The overall length of the spinnaker boom shall not exceed 2590mm from the front edge of the mast to the outer bearing surface of the spinnaker pole.

## **13.0 SAILS**

### **13.1 General**

- 13.1.1 The sails shall be made and measured in accordance with these rules, including the ISAF measuring rules except where alternative specific instructions or dispensations are given in respect of any race, series of races or contest.
- 13.1.2 Only one mainsail, two headsails and two spinnakers may be measured and carried aboard for the duration of any one contest, except that a third headsail not exceeding 75% of the area of the main headsail may be carried, to be used as a replacement headsail in the event of damage to the main headsails, or for safety in heavy weather conditions.

### **13.2 Mainsail – refer Appendix I**

- 13.2.1 The mainsail shall not exceed the following dimensions:-

|       |        |
|-------|--------|
| Luff  | 7720mm |
| Leech | 8220mm |
| Foot  | 3800mm |

- 13.2.2 The head-board width shall not exceed 165mm.
- 13.2.3 The mainsail shall have a window with a minimum clear area of 0.18m<sup>2</sup>, positioned approximately one metre from the luff and 200mm from the foot.
- 13.2.4 The width of the mainsail at the half and three quarter heights of the luff (excluding bolt rope) shall be measured to the nearest point (on an arc) of the leech and shall not exceed 2640mm and 1620mm respectively.
- 13.2.5 A maximum of four battens shall be permitted.
- 13.2.6 Number one reef shall be compulsory. Number two reef shall be optional.
- 13.2.7 The mainsail shall be constructed of Dacron or Mylar (or a combination of both). No other material shall be used.

### 13.3 Headsails – refer Appendix II

13.3.1 The headsails shall not exceed the following dimensions:-

|       |        |
|-------|--------|
| Luff  | 6700mm |
| Leech | 5960mm |
| Foot  | 2400mm |

- 13.3.2 The head-board width shall not exceed 50mm.
- 13.3.3 The half height width shall not exceed 1380mm.
- 13.3.4 The three quarter height width shall not exceed 740mm.
- 13.3.5 The headsail must be tacked down to the centre line of the yacht and must be attached to the forestay by a hank or similar snap system.
- 13.3.6 A maximum of three battens shall be permitted, evenly spread down the leech, with a maximum length of 300mm each, except that the top batten may be full length.
- 13.3.7 The headsail shall be constructed of Dacron or Mylar (or a combination of both). No other material shall be used.

### 13.4 Spinnaker

13.4.1 The spinnaker shall be a three cornered sail, and shall be symmetrical in shape. The spinnaker shall not exceed the following dimensions:-

|           |        |
|-----------|--------|
| Luff      | 7200mm |
| Foot      | 4400mm |
| Max width | 4400mm |

## 14.0 SAFETY

All yachts must comply with the following safety requirements:

- 14.1** A towing ring or eye must be fitted to the bow.
- 14.2** A towrope not less than twice the length of the yacht must be carried.
- 14.3** An approved buoyancy aid must be carried at all times for each crewmember. Buoyancy aids are to be worn at the discretion of the race committee or organising authority of any regatta or race series.
- 14.4** Unless otherwise required by the race committee or organising authority of any regatta or race series, outboard motors do not have to be carried. It is recommended that they be carried in circumstances where a patrol boat or other motorized vessel may not be available to give assistance.
- 14.5** An anchor and warp shall be carried ready for use in an accessible stowage area. The anchor shall be a minimum size of a Danforth 8S (4.5kg) complete with 46 metres of anchor warp, of which at least 5.9 metres is to be in 6mm chain.
- 14.6** An orange flag 600 x 600 for waving shall be carried.
- 14.7** A 4 litre minimum capacity bucket shall be carried and be attached to the boat with a lanyard.

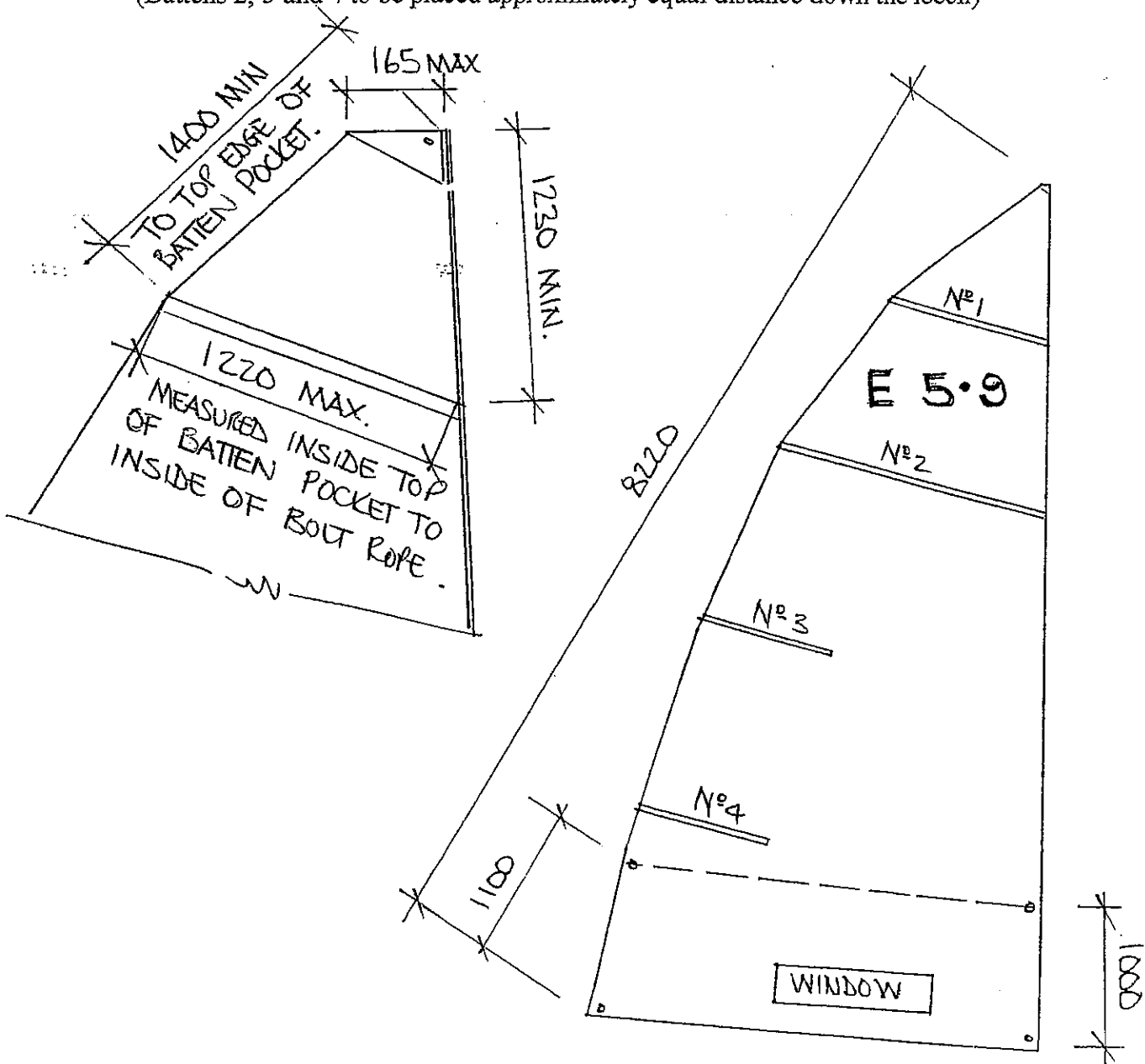
**APPENDIX I**  
**Mainsail**

|          |                                    |
|----------|------------------------------------|
| Leech    | 8220mm – maximum                   |
| ½ Height | 2640mm – maximum cross measurement |
| ¾ Height | 1620mm – maximum cross measurement |

(To determine ½ and ¾ height measurements, divide luff to equal measures by folding head to tack and head to ½)

|         |        |                                |
|---------|--------|--------------------------------|
| Battens | No. 1: | 1220mm – maximum pocket length |
|         | No. 2: | Full Length                    |
|         | No. 3: | 1300mm – maximum batten length |
|         | No. 4: | 1300mm – maximum batten length |

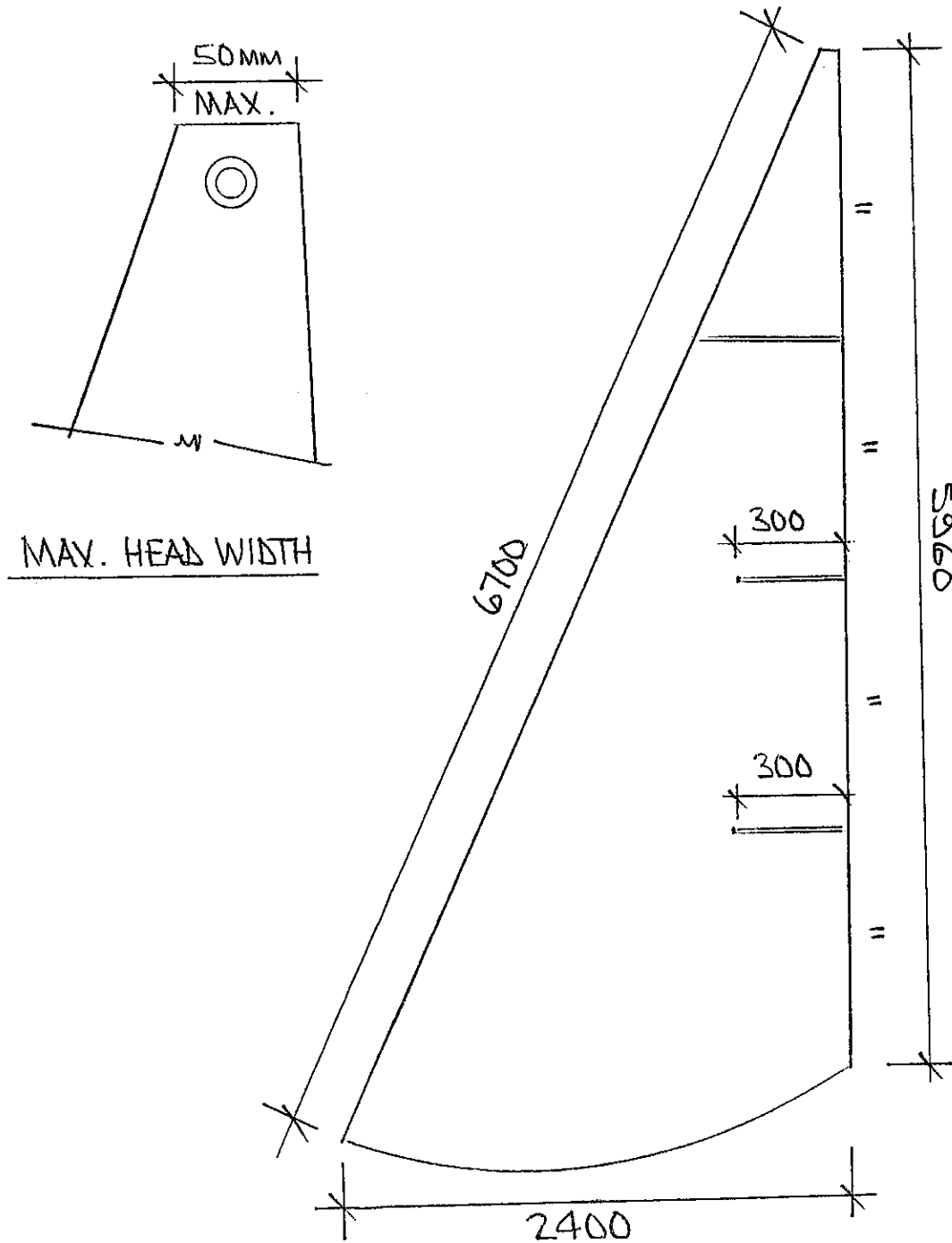
(Battens 2, 3 and 4 to be placed approximately equal distance down the leech)



**APPENDIX II**  
**Headsail**

|                |                                    |
|----------------|------------------------------------|
| Luff           | 6700mm – maximum                   |
| Leech          | 5960mm – maximum                   |
| Foot           | 2400mm – maximum                   |
| ½ height width | 1380mm – maximum cross measurement |
| ¾ height width | 740mm – maximum cross measurement  |

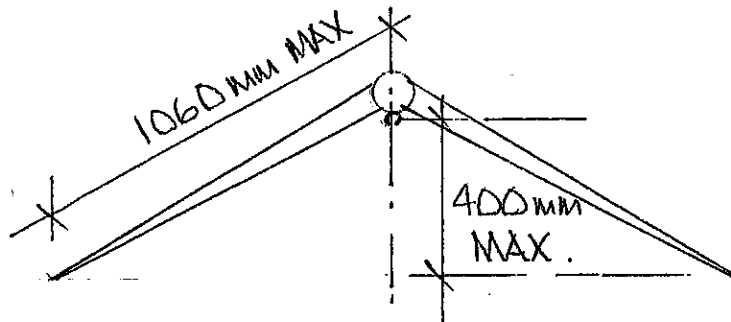
(To determine ¼ and ½ height, divide luff to equal measures by folding head to tack and head to ½)



### APPENDIX III

#### Mast

|  |  |
|--|--|
| Lower black band                       | 580mm from heel of mast (maximum)            |
| Upper black band                       | 7720 from upper edge of lower band (maximum) |
| Spinnaker halyard exit box             | 6870mm from heel of mast (maximum)           |
| Forestay intersection point            | 6600mm from heel of mast (maximum)           |
|  | 6390mm from heel of the mast (minimum)       |
| Sidestay intersection point            | 6600mm from heel of mast (maximum)           |
|  | 6390mm from heel of the mast (minimum)       |
| Sidestay and Forestay attachment point | 100mm vertical separation (maximum)          |
| Spreader height                        | 3330mm from heel of mast (+ or -50mm)        |
| Lower intersection point               | 3300mm from heel of mast (+ or -50mm)        |
| Taper length on mast                   | 2000mm (Maximum)                             |
| Spreader details                       | See diagram below                            |



## APPENDIX IV

### Rudder

- Must be swing type
- Must be locked down while racing
- Minimum depth of 800mm below hull/transom line
- Maximum depth of 900mm below hull/transom line
- Must confirm to width dimensions as shown on the diagram below

