

ZEPHYR CLASS RULES

PART 1

1. GENERAL

1.1. Name

The class shall be known as the Zephyr Class. The Zephyr is a one-design class. As defined in the World Sailing Equipment Rules of Sailing, these are Closed Class Rules where anything not specifically permitted by the class rules is prohibited.

1.2. Control

The class shall be administered by the Zephyr Owners' Association (ZOA) Inc.

1.3. Policy

- 1.3.1. It is the policy of the ZOA to restrict the hull form and sail plan, while allowing a certain freedom of finish and equipment, so as to ensure that all boats have the same potential speed.
- 1.3.2. It is impossible to define completely every aspect of the craft and thus any aspect deemed to be "not within the spirit of the class rules" may be cause for the refusal of a measurement certificate or for disqualification.
- 1.3.3. It is essential, should an owner wish to deviate from the norm, that an interpretation of class rules be requested in writing from the ZOA.

1.4. Contents and Application

- 1.4.1. These rules consist of Part 1 General, Part 2 Restrictions and Finishing Instructions for Wooden Decked Hulls, Part 3 Restrictions and Finishing Instructions for Fibreglass Hulls, Part 4 Equipment, Part 5 Builder's Specifications, Finishing Plans, Part 6 Championship Equipment Restrictions, Part 7 Mast and Boom specifications, Part 8 Rule Changes, Part 9 Measurement Form.
- 1.4.2. In the event of a discrepancy between these rules, the measurement form and/or the finishing plans, the matter shall be referred to the ZOA.
- 1.4.3. All boats shall be built in accordance with the class rules.
- 1.4.4. Anything contrary to the spirit of these rules is not permitted.
- 1.4.5. Where doubt exists as to the validity of any matter, it should be referred to the Committee for decision. Where appropriate, the Committee shall have such questions decided by ballot in accordance with Part 1.9 of these rules.
- 1.4.6. Neither Yachting New Zealand (YNZ) nor the ZOA accept any legal responsibility in respect of these rules or any claim arising therefrom.

1.5. Definitions

- 1.5.1. Committee means the Executive Committee of the Zephyr Owners' Association Inc.
- 1.5.2. Registered owners means current financial members of the Zephyr Owners' Association.

1.6. Hulls

- 1.6.1. To maintain the one-design nature of the class, all hulls shall be built by a Builder approved by the Committee and in accordance with the current specifications and plans for the construction of Zephyr hulls.
- 1.6.2. All hulls shall be finished in accordance with Part 2 of these rules (Restrictions and Finishing Instructions for Hulls).
- 1.6.3. Purchasers shall purchase new hulls from ZOA and no other entity.

1.7. Sails

- 1.7.1. All new sails shall be made by a sail maker approved by the Committee, to the computer-generated design and specifications current at the time of production. No further new sails will be made from any earlier pattern. Existing sails from any previous approved pattern may remain in use.
- 1.7.2. No alteration to sails shall be permitted apart from making good flaws during manufacture, damage repairs, adding reefing points or for the purpose of making good shrinkage of bolt ropes.
- 1.7.3. All repairs shall be carried out by the sail manufacturer currently appointed for the manufacture of the sails or where sails are unable to be presented to the sailmaker so appointed, by such other maker as may be permitted by the Committee of the ZOA.
- 1.7.4. Owners shall purchase new sails from the ZOA.
- 1.7.5. Sail battens may be made of any material including carbon fibre.

1.8. Equipment

- 1.8.1. All boats shall be equipped in accordance with Part 4 (Equipment) of these rules and the YNZ Safety Regulations Part 1.

1.9. Rule Changes

No changes of rules or restrictions shall be made unless:

- 1.9.1. Notice proposing the change has been given to the Committee in writing and signed by six registered owners.
- 1.9.2. Details of such change, together with relevant details have been circulated to all registered owners, at least four weeks before the vote being taken.
- 1.9.3. The proposed rule change has been approved by two-thirds of the registered owners who have voted at either an Annual or Special General Meeting or via electronic means as approved by the Executive Committee.
- 1.9.4. Where voting is being decided at a Special General Meeting called for the purpose, Registered Owners unable to attend may register their vote by mail or by proxy.

1.10. Registration and Measurement

- 1.10.1. No boat is permitted to race in the class unless it has a valid measurement certificate.
- 1.10.2. A measurement certificate shall be obtained by the owner making application to the local measurer appointed by the Committee. The measurer will complete a measurement form and submit it to the Committee for approval. The Committee will then approve the issue a measurement certificate to the owner.
- 1.10.3. Any peculiarities will be noted by the measurer on the measurement form.
- 1.10.4. Change of ownership invalidates the certificate but shall not necessitate re-measurement. The new owner may apply to the ZOA for a new certificate, returning the old certificate and stating the necessary particulars. A certificate shall be supplied to the owner if all details held by ZOA are within current class rules and/or following a full measurement check.
- 1.10.5. It is the owner's responsibility to ensure that the boat, its spars, sails and equipment comply with the class rules at all times and that alterations or replacements to the boat, spars, sails or equipment do not invalidate the certificate.
- 1.10.6. Notwithstanding anything contained in these rules, the YNZ or ZOA shall have the power to refuse to grant a certificate to, or withdraw a certificate from, any boat.
- 1.10.7. Measurers shall not measure a boat, spars, sails, or equipment owned or built by them, or in which they have a vested interest.
- 1.10.8. Templates used for official measurements shall be supplied by the ZOA.

- 1.10.9. Measurement tolerances are intended to allow for genuine building errors only, and shall not be deliberately used to alter the design.
- 1.10.10. Measurers shall report on the measurement form anything that they consider to be a departure from the intended nature and design of the boat, or to be against the general nature of the class. A certificate may be refused even if the specific requirements of the rules are satisfied.
- 1.10.11. All spars, sails, foils equipment and corrector weights shall comply with the current version of the class rules. Hulls shall comply with the version of class rules which was current at the time the hull was first measured. Any alterations or replacements shall comply with the current rules.
- 1.10.12. All boats, spars, sails and equipment shall be liable to re-measurement at the discretion of the ZOA or the race committee,
- 1.10.13. Where these rules are silent on any point of measurement procedure, the World Sailing Measurers' Manual shall be used.
- 1.10.14. The ZOA Committee may grant a measurement certificate to a boat which has been altered or otherwise does not comply with these rules, if the Committee is satisfied that the non complying features do not materially affect its potential speed or handling characteristics.

1.11. Identification Marks

- 1.11.1. All hulls shall have the registration number issued by the ZOA permanently marked on the keelson or the starboard side of the centrecase.

PART 2

2. RESTRICTIONS AND FINISHING INSTRUCTIONS FOR WOODEN DECKED HULLS

2.1. Hulls

- 2.1.1. Wooden decked hulls shall be supplied with deck beams, gunwales, carlins, deckposts, centrethwart, centrecase, bulkheads and mast step permanently fitted. A fore or aft deckpost is optional. No alteration to the hull as supplied shall be permitted except as provided for herein.
- 2.1.2. Minimum weight of the completed hull, including the following fittings, shall be 58kgs. Included fittings are; chain plates, fixed rudder fittings, cleats, hiking straps, buoyancy bags, blocks, mainsheet take off system, control lines including vang, cunningham, outhaul, traveller and forestay control lines, compass, drink bottle holder. Excluded are; mainsheet, centreboard, rudder and all items that rotate with the rudder, gear bags, loose bailers, sponges, drink bottles.
- 2.1.3. Hulls weighing less than the minimum weight are to be brought up to weight with corrector weights. Corrector weights, each weighing not less than half of the total weight required shall be fixed to the aft bulkhead or keelson adjacent to the aft bulkhead and the aft section of the mast step cross member, or in an equivalent position approved by the Chief Measurer for those boats that do not have a conventional mast step and/or an aft bulkhead.
- 2.1.4. Any wood or plywood surface of the hull or deck may be covered with a single layer of up to 220 gsm glass fibre 'E-Glass' attached with resin. Fairing filler of up to 5 mm thickness may be added but shall be used only to fair hollows in the surface.
- 2.1.5. E-glass taping of the side tank to hull with up to 220 gsm cloth laid over a coving either side of the side tank plywood is permitted.
- 2.1.6. Carbon fibre is permitted for decorative, non structural use on the hull. Carbon fibre may be used to construct fittings.
- 2.1.7. Carbon fibre may only be used to strengthen the hull shell at the chain plates and is limited to an area 170x100mm.

- 2.1.8. The transom may have 2 cutouts to act as lifting handles, with the dimensions not exceeding 130 x 70 mm. If the transom forms part of a buoyancy tank, the cutouts shall be sealed to prevent ingress of water.
- 2.1.9. A tie rod assembly, from the king plank to the keelson, or mast step area, is permitted.
- 2.1.10. Buoyancy tank inspection ports may be added.

2.2. Deck

- 2.2.1. The deck shall be made of marine plywood i.e. BS1088, of nominal thickness not less than 4mm and shall be glued down. Deck beams may be rounded to 5mm convex radius.
- 2.2.2. The decking shall completely cover the area from the stemhead to the main deck beam, the side decks and aft deck. The following shall be allowed: -
 - i. mast hole, with the dimensions specified in these rules.
 - ii. Apertures to accommodate the passage of control lines only.
 - iii. Round inspection ports.
- 2.2.3. Side tank decking may be reinforced with plywood panels, athwartship beams or 220 gsm E-glass covering the plywood surfaces.

2.3. Beadings

- 2.3.1. Shall be made from clear timber and fitted to the gunwales, carlins, main deck beams and top of the transom, to cover plywood end grain.
- 2.3.2. External beadings, except for the transom beading, shall not be less than 10mm thickness and must not extend more than 35mm from the shell.
- 2.3.3. The transom beading has no minimum dimension, but it must cover the deck plywood end grain. It may be recessed into the transom and may be cut away in the area of the rudder gudgeons.
- 2.3.4. Internal beadings shall not be less than 3mm wide and 15 mm high

2.4. Coamings

- 2.4.1. Shall be made of plywood or clear timber, set at 60 degrees \square 10 degrees and shall be permanently fixed. Measured at the centreline, the coaming shall be either no more than 150mm forward of the front edge of the mast hole or no more than 100mm aft of the rear edge of the mast hole.
- 2.4.2. Shall be a minimum height of 65mm from the deck at the centreline, and a minimum of 20mm high, measured at 100mm from the nearest point on the gunwale.

2.5. Mast Hole Collar

- 2.5.1. A mast hole collar, of clear timber or marine plywood, 28mm \pm 10mm high, shall be permanently fixed to the deck.
- 2.5.2. The mast hole shall be 2625mm \pm 10mm from the outside face of the tuck to the centre of the hole.
- 2.5.3. The hole shall be a 65mm \pm 2mm diameter circle.
- 2.5.4. A mast hole sealing sleeve is permitted.

2.6. Mast Step

- 2.6.1. In wooden boats, the maximum height shall be 90mm from top of keelson to top side of the step. In fibreglass boats, maximum height shall be 103mm from the inner surface of the hull at the centreline, to the top side of the step. When the point at which the mast step fitting contacts the mast is more than 5mm above the allowed height of the mast step, the additional distance shall be added to the overall length of the mast.

2.7. Centrecase

- 2.7.1. The centrecase internal forward vertical face shall be 1805mm \pm 10mm from the aft face of the transom to deck intersection - measured parallel to the waterline.

- 2.7.2. Centrecases shall have a minimum depth of 300mm, measured from the external surface of the hull, to the top of any capping. Fairing flaps, capping strips or internal wedges are permitted.
- 2.7.3. The centrecase bottom exit may have a shaping material to fit closely around the shape of the centreboard. A faring flap may be fitted to the outside of the hull.
- 2.7.4. Reinforcement of the centrecase/centrethwart junction with a knee extending no more than 50mm in either direction and no deeper than the centrethwart, is permitted.

2.8. Chainplates

- 2.8.1. Chainplates shall be fitted with centre of the eye not more than 2371mm from the aft face of the transom - measured parallel to the water line.
- 2.8.2. Chainplates may extend beyond the hull outer skin but not beyond the deck beading.

2.9. Floor Battens

- 2.9.1. In wooden boats, at least two floor battens 6mm x 45mm minimum sizes, made from clear timber, shall be fitted per side, parallel to centreline of boat. Minimum total length 6000mm, except that where full side bulkheads are fitted, the minimum length may be reduced to 4000mm.
- 2.9.2. Floor battens are not required in fibreglass boats

2.10. Buoyancy

- 2.10.1. Buoyancy shall be a minimum of 0.2 cubic metres and it shall comply with YNZ Safety Regulations Part 1.
- 2.10.2. Bulkheads and buoyancy tanks are permitted and recommended and may enclose the whole or part of the area covered by the deck.

PART 3

3. RESTRICTIONS FOR FULL FIBREGLASS HULLS

- 3.1.1. Minimum weight of the completed hull, including the following fittings, shall be 58kgs. Included fittings are; chain plates, fixed rudder fittings, cleats, hiking straps, buoyancy bags, blocks, mainsheet take off system, control lines including vang, cunningham, outhaul, traveller and forestay control lines, compass, drink bottle holder. Excluded are; mainsheet, centreboard, rudder and all items that rotate with the rudder, gear bags, loose bailers, sponges, drink bottles.
- 3.1.2. Hulls weighing less than the minimum weight are to be brought up to weight with corrector weights. Corrector weights, each weighing not less than half of the total weight required shall be fixed to the aft bulkhead and the aft section of the mast step cross member.
- 3.1.3. Chainplates shall be fitted with centre of the eye not more than 2371mm from the aft face of the transom.
- 3.1.4. Forestay chainplate, sidestay saddles, the mast collar fitting and venturis must remain 'as supplied' by manufacturer and in the event of damage, replacements must be sourced from the same manufacturer.
- 3.1.5. No alterations may be made to any part of the hull fibreglass structures.
- 3.1.6. Full fibreglass hulls may have timber, plastic or foam & fibreglass 'grab' strips no larger than 10 mm wide x 15 mm deep fitted to the vertical faces of side tanks between the thwart and cockpit rear bulkhead.
- 3.1.7. The centrecase bottom exit may have a shaping material to fit closely around the shape of the centrecase. A faring flap may be fitted to the outside of the hull.
- 3.1.8. A mast hole sealing sleeve is permitted.

- 3.1.9. Buoyancy tank inspection ports may be added.

PART 4

4. EQUIPMENT

4.1. Masts

- 4.1.1. Aluminium masts shall be supplied by a manufacturer to a specification approved by the ZOA Committee.
- 4.1.2. The maximum overall length of the mast shall be 5640mm, measured from the bearing surface of the halyard sheave to the point of contact with the mast step fitting.
- 4.1.3. Two side stays and one forestay shall be fitted. Stay material shall be SS wire strands (circular or compacted), overall diameter to be a minimum of 2.3mm.
- 4.1.4. Stays shall be attached to the mast between 1525mm and 1830mm from the bearing surface of the halyard sheave. Stay hook attachment holes may be sealed with rubber grommets.
- 4.1.5. The forestay may be adjusted while racing but the sidestays shall not be adjusted while afloat.
- 4.1.6. An external halyard complying with YNZ Safety Regulations Part1 shall be fitted. The halyard shall not be adjusted while racing.
- 4.1.7. No rigging other than that described in clauses 4.1.3 – 4.1.6 is permitted.
- 4.1.8. The mast shall not revolve. The heel may slide freely fore and aft to a maximum of 20mm. No adjuster may be applied to the heel of the mast while racing.
- 4.1.9. Attachment points for a halyard cleat, boom vang, gooseneck, cunningham, clew outhaul, stays and halyard lock only are permitted.
- 4.1.10. The vertical pivot axis for the gooseneck shall be no more than 35 mm from the aft face of the mast excluding the sail track.
- 4.1.11. A circular mast collar rub strip attached to the mast is permitted.
- 4.1.12. Damaged aluminium masts may be repaired using an aluminium internal tube section with a wall thickness not exceeding the mast section wall thickness, and a maximum total length of not more than 400mm, which extends no more than 200mm above and 200mm below the repair joint. The repaired mast must be approved by an approved Class Measurer and the mast base must be removable to allow easy re-measurement of the tube length, thickness and location above and below the mast repair joint.
- 4.1.13. Timber masts shall conform to the following dimensions: -
 - at 1100mm from heel the fore and aft dimensions should be between 73mm and 95mm, the athwartships between 58mm and 76mm
 - at 3800mm from heel the fore and aft dimensions should be between 70 and 95mm, the athwartships between 53mm and 63mm
 - at 100mm from top the fore and aft dimensions should be between 36mm and 63mm, the athwartships between 21mm and 47mm
- 4.1.14. Weight: minimum weight for wooden masts shall be 5.4kg inclusive of all shrouds, stays, halyards and fittings permanently attached to the spar. Make weights shall be added to the mast tangs

4.2. Booms

- 4.2.1. Aluminium booms shall be supplied by a manufacturer to a specification approved by the ZOA Committee:
- 4.2.2. The sail track cutout shall not extend beyond 260mm from the mast extrusion.

- 4.2.3. Fittings are permitted for the gooseneck, attachment of the sail tack, cunningham adjustment, boom vang, boom preventer, mainsheet blocks and adjustable outhaul.
- 4.2.4. Timber booms shall be circular 63mm ± 6mm.
- 4.2.5. Minimum weight for timber booms shall be 2.7kgs when stripped.

4.3. Mainsheet

- 4.3.1. The mainsheet blocks shall be attached only to the boom and centrethwart/centrease assembly.
- 4.3.2. Mainsail may not be sheeted from a point outboard of carlin.

4.4. Centreboard

- 4.4.1. The centreboard shall be fitted with a positive stop. Measured from the underside of the stop, it shall fit within a rectangle 1370 x 292mm. Maximum thickness shall be 22mm. Design and construction materials are optional, including the use of carbon fibre

4.5. Rudder

- 4.5.1. The design and construction of the rudder, rudder blade and tiller are optional including the use of carbon fibre.
- 4.5.2. Maximum thickness shall be 22mm.
- 4.5.3. The steering pivot axis for the rudder and stocks shall not be more than 100mm aft of the transom when measured adjacent to the gudgeons.
- 4.5.4. Raising or lowering the rudder while racing is not permitted, except briefly in the case of grounding or entanglement.

4.6. Venturis

- 4.6.1. Are permitted and/or a maximum of 2 stern drains, each to have a maximum area of 5400 square mm.

4.7. Cunningham Eye

- 4.7.1. Adjusting the sail luff tension via the cunningham eye is permitted.

4.8. Items Not Permitted

- 4.8.1. Sliding seats, spreaders, trapezes, ballast, weight jackets, additional decking, and false floors and carbon fibre hull sheathing are prohibited.
- 4.8.2. Except where specifically permitted in these rules, carbon fibre use is prohibited.

4.9. Electronic Aids

- 4.9.1. Digital compasses and timing devices are permitted. All other electronic aids are prohibited.
- 4.9.2. Watches, fitness devices that incorporate other features such as position and course tracking and cameras are permitted, provided that data from such devices cannot be accessed on board when afloat. Establishing and accessing information on the starting line and locations of marks using electronic devices is prohibited while racing.

PART 5

5. BUILDER'S SPECIFICATIONS

5.1. The Builder's Responsibility

- 5.1.1. Zephyr hulls shall be built by a builder approved by the ZOA Committee.
- 5.1.2. The hulls shall be built strictly in accordance with the Zephyr Class Rules – Parts 1,2 and 4. The builder shall keep the objectives and policies set out in Part 1 uppermost while constructing Zephyr hulls.
- 5.1.3. The builder shall be answerable to the ZOA Committee and/or its representatives.
- 5.1.4. Where doubt exists as to the validity of any matter, it shall be referred to the Committee for a decision.

- 5.1.5. The builder shall sell Zephyr hulls to the ZOA and no other entity.
- 5.1.6. The builder will not permit a prospective purchaser of a Zephyr hull to witness, improve, or in any way interfere with the manufacture and production of the Zephyr hull in any way. This does not apply to the builder or its staff.

5.2. Quality of Work and Materials

- 5.2.1. All work carried out by the builder and his/her employees, shall be to a standard that is recognised and accepted as good trade practice.
- 5.2.2. All timber and materials used shall be the best of their type available. No second grade or faulty materials shall be used.
- 5.2.3. There shall be no change of materials or building methods, from this specification by the builder without the specific permission of the ZOA Committee and where deemed necessary, the vote of owners in accordance with Part 1.9 (Rule Changes).

5.3. Hull Shell

- 5.3.1. Shells shall be built only from a mould approved by the ZOA for the construction of Zephyr hulls. No alterations shall be made to this mould without the inspection and specific permission of the Committee.
- 5.3.2. Wooden shells shall be constructed using either triple skin diagonal cold moulding or single skin strip plank, glassed both sides.
 - 5.3.2.1. Triple skin diagonal cold moulding: the shell shall be constructed of three skins of at least 2.2mm approved timber.
 - 5.3.2.2. Single skin strip planked, glassed both sides: the shell shall be one skin of 7mm Western red cedar or equivalent, planks edge glued with an approved marine glue. Each glass skin shall be a minimum weight of 6oz E-Glass combining to a total glass weight of 16oz laid in epoxy resin
- 5.3.3. Fibreglass shells shall be constructed using a lay up of E glass with such resins and core materials as determined from time to time by the ZOA Committee. The side buoyancy tanks shall be made of marine ply as specified for decks in rule 2.2.1, nominal thickness not less than 4mm. The fibreglass transom shall be reinforced with a not less than 9mm plywood doubler.
- 5.3.4. A fully fibreglass Zephyr – hull shell, deck, bulkheads, centre case, buoyancy tanks and coamings may be constructed to specifications as determined from time to time by the Committee.

5.4. Framing Timbers

- 5.4.1. These items shall be made in accordance with the plans and patterns supplied by the ZOA.
- 5.4.2. Hulls shall be supplied by the builder with these framing timbers glued in place permanently.

Part	Material	Min unless stated (mm)	Notes
Transom (wooden boats)	Clear Timber Marine Plywood	19 thick 18 thick	Shape as shown in template
Keelson (wooden boats)	Clear Timber	70 x 19	Tapers to 40mm at stem and 50mm at transom
Stem (wooden boats)	Clear Timber	50 x 19	Shape as shown in template
Fore Deck King Plank	Clear Timber	114 x 19	Shape to deck camber. May be tapered to min 75mm wide forward of mid foredeck bulkhead beam.
Aft Foredeck Trans Beam (Cockpit)	Clear Timber	44 x 19	May have 5mm radius
Mid Foredeck Trans Beam (Mast Step Area)	Clear Timber	44 x 19	May have 5mm radius

Fwd Foredeck Trans Beam	Clear Timber	32 x 19	May have 5mm radius
Aft Deck King Plank	Clear Timber	52 x 19	May have 5mm radius
Aft Deck Transverse Beam	Clear Timber	44 x 19	May have 5mm radius
Centrease Sides	Clear Timber Marine Plywood	19 min 18 min	Shape as shown in template
Centrease Centre spacer	Clear Timber Marine Plywood	24 max	Cut out centre for board
Carlin	Clear Timber	19 x 19	
Gunwale	Clear Timber	16 x 19	Tapers to 8mm at either end
Centre Thwart	Clear Timber	40 x 19	Minimum dimension is at centre
Mast Step Base	Clear Timber	100 x 19	
Mast Step Webs	Clear Timber	19	

5.5. Finish and Supply

- 5.5.1. This specification covers the minimum work by the builder for the supply of Zephyr hulls.
- 5.5.2. No hull shall be released by the builder to an owner until it has been inspected and approved by the Committee and/or its representative, as meeting this minimum specification.
- 5.5.3. Owners may replace the decks, coamings, mast collar, transom, bulkheads, sidetanks or centrease components with materials specified for the relevant use in these rules after one year of being issued with a first measurement certificate, except that manufacturing flaws may be made good in consultation with the Chief Measurer and Committee. Prior approval, where practicable, must be obtained from the Chief Measurer. Following any such replacement, the boat must be inspected and approved by a Class Measurer.
- 5.5.4. Other parts of the hull may be replaced only in the case of breakage or deterioration. All materials used must comply with these class rules.
- 5.5.5. Painting; Any protective coating may be used on the hull, centreboard, rudder, tiller, mast and boom.

PART 6

6. CHAMPIONSHIPS EQUIPMENT RESTRICTIONS

- 6.1.1. For all National, Island and provincial championships, and any other event held over a period of 6 days or less, the skipper shall use only one hull, one mast, one boom, one sail, one centreboard and one rudder. These items may be replaced or repaired in the case of genuine damage, following inspection of the damaged item by the Measurer or Race Officer. Sail battens shall not be changed while afloat.

PART 7

7. MAST AND BOOM SPECIFICATION

- 7.1.1. This section is determined by the ZOA Committee and is not part of the Class Rules. Aluminium masts and booms shall be Baverstock BS5 or Standard McKechnie die 57.15 or NZ Rigging Die F6 57.50mm round section with track attached or the ZOA Die 57.5mm section with track attached. The mast taper shall start between 1640mm and 2140mm from the top of the mast and be 24 ± 2 mm, 140mm from the top. The sail track shall be continuous for a minimum of 4470mm from the top of the halyard sheave.

PART 8

8. RACING RULE CHANGES

- 8.1.1. Rule 44.1 is changed so the Two-Turns Penalty is replaced by a One-Turn Penalty.