

**NATIONAL WINDRUSH CATAMARAN ASSOCIATION
(Incorporated)**

CLASS RULES AND SPECIFICATIONS

(Effective from 1 April 2014)

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WINDRUSH CLASS RULES

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These Class Rules were produced by the Windrush Catamaran Association of Western Australia for and on behalf of the National Windrush Catamaran Association. Further copies can be obtained free of charge by contacting The Secretary, Windrush Catamaran Association of Western Australia or The Secretary, Windrush Catamaran Association of Queensland.

WINDRUSH CLASS RULES

PREAMBLE

1. Windrush catamarans are intended to be one design class yachts and shall therefore be sailed as produced with only limited variations. Any effort on the part of anyone to alter the boat or its rigging, except as specifically authorised by these rules, which would result or in the opinion of a Protest Committee is designed or is likely to result in such a boat or its helmsman or both obtaining an advantage over its competitors is a breach of the rules not only in spirit but in substance and such a boat shall, for racing purposes, be deemed not to be a Windrush Catamaran.

DEFINITIONS

"WINDRUSH PRODUCTION"

2. Equipment produced or sold as standard or normal extra equipment by Windrush Yachts, Perth (to May 1986) or Windrush Catamarans, Perth (from June 1986) or their licensed manufacturers with the permission of Windrush Yachts, Perth (to May 1986) or Windrush Catamarans, Perth (from June 1986).

"PRODUCTION FORM"

3. Similar in design and function to "Windrush Production" and offering no advantage.

"PRODUCTION ARRANGEMENT"

4. Where more than one arrangement of fittings has been sold, any one arrangement may be used but a combination of two arrangements is not permitted.

"WEAR AND REPAIR"

5. Where an item is subject to wear and tear or accidental damage it may be repaired in a manner intended to reproduce the original shape or function. When slight variations are the result of wear or repair they are acceptable provided they offer no advantage.

"COMPLIANCE"

6. If, as a result of a protest, a modified or repaired component is considered not to comply with these Class Rules then that ruling shall only apply to future races unless the protest committee considers that the entrant knowingly committed a serious breach of these rules for the purpose of obtaining an unfair advantage. Where disagreement occurs over the interpretation of these rules the ruling of the National Council shall apply.
7. Where it becomes necessary to determine whether equipment is "Windrush Production" the advice of Windrush Catamarans must be sought. If a representative of Windrush Catamarans is not present the question must be referred to them together with sufficient information, including photographs and/or sketches if possible, to make a valid judgement.

CLASSES

8. 14' CAT. This shall be a Windrush 14' with mainsail only and with a skipper only, without a trapeze.
9. 14' SLOOP. This shall be a Windrush 14' with a mainsail and jib, with a skipper and one crew without a trapeze.
10. SUPER 14. This shall be a Windrush 14' with mainsail and a

skipper only, with or without trapeze and with or without a jib.

HULLS

11. Hulls shall be "Windrush Production".
12. The position of and the method of attachment of forestays, side stays and transom fittings shall be "Windrush Production".
13. Refinishing, painting, etc. of hulls is permitted but not to the extent that the general shape of the hull is altered.
14. It is not permitted to use a wetting agent on the hulls for the purpose of reducing friction.
15. Any change intended to reduce the weight of production hulls is prohibited.
16. The addition of rubbing strips to the bottom of the hull is permitted to maximum depth of 5mm.

BEAMS AND TRAMPOLINE FRAMES

17. The front and rear beams shall be "Windrush Production". This includes all fittings which attach them to the hulls.

TRAMPOLINE

18. The trampoline shall be "Windrush Production".
19. The lacing arrangement pattern is optional and must use only the "Windrush Production" attachments on the trampoline and rear beam.
20. The number and position of hiking straps and jib sheeting eyelets and eyelets for the trapeze shock-cord shall be optional.
21. It is permitted to fit a storage pocket made of any material.
22. It is permitted to add padding material to the hiking straps.

RUDDERS

23. The deep rudder system shall be "Windrush Production". This includes the cross bar, tiller arms, tiller joints, head castings, cheek castings and blades.
24. The type and means of attachment of the tiller extension shall be optional.
25. The opening in the rear of the rudder head casting may be increased in length to a maximum of 105mm measured from the rear edge of the casting.
26. The replacement of the "Windrush Production" rudder rollers with those of another material or larger diameter is not permitted.
27. The "Windrush Production" rudder pin may be replaced with a pin of a larger diameter to remove play between the rudders and the hull.
28. The 3/16" bolt through the tiller arm which is the control stop for the internal spring must be fitted.
29. Rudder blades may be refinished, including painting, but not to the extent where the shape is altered from the "Windrush Production" profile or cross sectional shape.
30. The head profile of the "Windrush Production" deep rudder blade may be modified in the vicinity of the lock down notch and also adjacent to the base of the cheek casting to achieve uniform fore and aft alignment.
31. Disc rudder blades may be "Production Form". The profile and

cross-section of the blades shall not vary from "Windrush Production". However, the blade thickness may be increased to a maximum of 22mm.

32. Tillers on the disc rudders may be angled inwards to give asymmetrical steering.

SPARS

33. Unless otherwise specified, spars and all fittings thereon shall be "Windrush Production".
34. It is only permitted to use the Windrush exclusive boom section sold as "Windrush Production" since about 1978 in National or State Championships.
35. No change shall be made to the "Windrush Production" mast or boom extrusions which would have the effect of lightening them or changing their characteristics, eg. pre-bending, tapering, staying, slotting, etc.
36. It is essential that the flotation ability of the mast be retained. A drain hole may be drilled in the mast provided it is fitted with an effective plug to maintain the flotation ability.
37. The mast base is fitted with a positive stop to restrict mast rotation. Modification of this stop is not permitted.
38. No device is permitted which will allow control or adjustment of mast rotation angle whilst sailing.
39. The mast head may be modified by the removal of aluminium from the rear of the head wheel surround casting. The maximum that may be removed is the rear quadrant of the casting.
40. The gooseneck may be changed from the "Windrush Production" standard item which is a slug fitted in the sail track in the mast below the sail opening. The approved replacement is the "Windrush Production" stainless steel slide arrangement fitted as a standard item on the Super Sloop mast.
41. The bollard cleat on the mast may be shifted to a position on the side of the mast immediately adjacent to the "Windrush Production" position.
42. The halyard lock shall be "Windrush Production" and its position shall not be changed.
43. The gooseneck end casting must be used as the attachment point for the downhaul system.
44. The "Windrush Production" staple type block hangers on the boom may be replaced with a "Production Form" fitting within 50mm of the original position.
45. The boom cleat for restraining the adjustable clew outhaul shall be optional.

DOWNHAUL AND BOOM VANG

46. Down haul and boom vang may be of "Production Form" or a similar arrangement to a maximum purchase of 8:1.
47. The methods of attachment of the downhaul and vang to the boom and mast are optional provided they offer no advantage.

MAINSHEET

48. Mainsheet blocks, their layout and the rope used are optional. However, the purchase shall not exceed 6:1 (no more than six rope parts between the boom and the boat). No additional fixing mounts shall be used on the boom, rear cross beam, hulls, trampoline or elsewhere.

STANDING AND RUNNING RIGGING AND FITTINGS

49. Standing rigging may be "Production Form" and all dimensions shall be measured with 5 kilograms tension applied at the bearing surface of the eyelets. The snaphooks must be captive on the end of the bridle and twin forestays in the same manner as those on "Windrush Production" items. The thimble must be secured through the eyelet of the snaphook.
50. The forestay and bridle and side stays may be "Production Form" and fitted to the bow and chain plates saddles with the snap hooks bearing the load. At the mast hound the stays may be connected to the mast using any combination of the "Windrush Production" shackles and/or a single adjuster to provide a measure of mast rake adjustment.
51. Running rigging shall be optional with the following exceptions.
52. The main halyard shall be "Windrush Production". However, the halyard lock must allow the sail to be lowered at sea by a crew member on the trampoline.
53. The adjustable clew outhaul is allowed provided there is a positive means of retaining the foot rope of production form dacron sails or the crew slug on "Windrush Production" form mylar sails within the boom track and the purchase does not exceed 3:1.
54. The fitting of V type jam cleats for a jib/forestay tensioner line and a jib furler line is permitted.
55. Righting ropes shall be of "Production Form". The rope shall be not less than 8mm in diameter and not less than "Windrush Production" in length.
56. The mast step fitting and its position shall be "Windrush Production".
57. The fitting of a jib furler is optional.
58. The jib sheeting arrangement may be "Production Form". The position on the front beam where the sheet ends tie around the beam is optional.
59. The jib cleat assembly may be "Production Form". The cam cleats may be replaced by those of another manufacturer and the use of a swivel cleat is optional. The jib cleat assembly shall be fitted to a "Windrush Production" casting.
60. The use of a tubular bow spreader is optional.
61. When sailed with a jib, twin "Production Form" forestays may be used provided they are correctly fitted.
62. Where the class permits the use of a trapeze the arrangement of wires, hooks, retrievers and toe straps shall be optional. The wires may be fitted to an additional tang at each side of the mast.

SAILS

63. All sails manufactured after 1 December 1996 shall not comply with the rules unless they are Windrush Production
64. The mainsail and jib constructed of 'Dacron' shall be "Production Form" and shall not exceed the dimensions appearing in the WINDRUSH SPECIFICATIONS.
65. "Production Form" sails shall not be constructed of kevlar or any similar fibre or plastic film.
66. Only "Windrush Production" sails may be constructed of mylar.
67. Windows in either the jib or mainsail shall be optional and shall have an area no greater than 0.3m².
68. The provisions of the IYRU Sail Measurement Manual shall apply when measuring "Production Form" sails. However, where the WINDRUSH CLASS RULES and the IYRU Sail Measurement Manual are in conflict, these rules shall apply.

MAINSAIL

69. Loose footed "Production Form" mainsails are not permitted.
70. Sail flattening zippers, lacing and Cunningham eyes are not permitted.
71. Reefing is allowed provided it reduces the luff and leech measurement by not less than 300mm and is not removed during racing.
72. The mainsail shall display the appropriate class emblem located between the first and second battens from the head and it shall be clearly visible.
73. Sail numbers to be allocated solely by Windrush Catamarans, Perth.
74. The mainsail shall be fitted with full length batten pockets only and each pocket must contain at least one full length batten. The Windrush 14' shall have seven pockets.
75. Sail batten types are optional.
76. The mainsail may be constructed with a headboard. The maximum dimension of the headboard measured at right angles to the luff shall be 150mm.
77. Shock cord is permitted for use as a bolt rope in the foot . The size of rubber shock cord must be capable of retaining the foot in the track of the boom.
78. Leech lines are not permitted.
79. Reinforcement of the leech and luff of "Production Form" sails is permitted using conventional sail cloth only. Kevlar, Mylar or similar plastic film shall not be used.
80. Only one mainsail may be used during a championship series unless approved by the National Windrush Catamaran Association Inc. in the case of competition at a national level or the appropriate State Association for competition at state level.
81. No recutting of WINDRUSH PRODUCTION SAILS shall be permitted.
82. The maximum position to which the head of the sail (as described by the IYRU Sail Measurement Manual) may be hoisted is level with the top of the mast extrusion.
83. Mainsail Measurement Procedures for "Production Form" sails.
84. The following diagram of the head of the mainsail shall apply and is described as the highest point of the sail projected perpendicular to the luff or its extensions.
85. The following diagram of the clew of the mainsail shall apply

and is described as the aftermost part of the sail projected to the foot or its extension.

86. The mainsail shall be measured in a dry state with the spars removed, the battens slackened and the sail laid on a flat surface.
87. Peg the head of the sail. Apply 20 kilograms tension to the tack cringle and 20 kilograms tension to the clew cringle.
88. The luff measurement shall be taken in a straight line from the head to where the sail enters the boom track at the tack. The foot measurement shall be taken in a straight line along the boom from the point at the tack where the sail would reach the mast to the clew.
89. The leech measurement shall be taken in a straight line from the head to the clew with just sufficient tension to remove wrinkles across the line of measurement.
90. The 1/8, 1/4, 1/2 and 3/4 cross width measurements are made with the battens removed. Fold the luff so the head covers the tack and find the mid-point of the luff. Fold the leech so the head is covering the clew and find the mid-point of the leech. With the sail laid flat, measure between these two mid-points across the sail with sufficient tension applied to remove the wrinkles. Repeat the operation to find the 1/8 1/4 and 3/4 points on the leech and luff. The cross width measurements shall exclude the width of the bolt rope.

JIB

91. Only one jib may be used during a championship series unless approved by the National Windrush Catamaran Association Inc. in the case of competition at a national level or by the relevant State Association for competition at state level.
92. The Production Form jib shall have no headboard, clew board, battens nor excessive stiffening designed to give extra sail area.
93. Jib Measurement Production for "Production Form" sails. The jib shall be measured in accordance with the IYRU Sail Measurement Manual (Section 10.7 Headsails -Definitions).

PERSONAL BUOYANCY AND SAFETY

94. All competitors shall wear an approved aid to buoyancy in good repair secured about their person in the manner appropriate to the design of the garment. Failure to comply may result in disqualification.
95. All competitors under 13 years of age must wear a Personal Flotation Device Type 1 which meets the requirements of the Standards Association of Australia AS 1512.
96. All other competitors must wear as a minimum a Personal Flotation Device Type 2 which meets the requirements of the Standards Association of Australia AS 1499 unless Sailing Instructions require a PFD Type 1.
97. As a safety measure on catamarans sailed with crew, the crew must be able to maintain the boat head to wind without assistance from the skipper.
98. (deleted)
99. All catamarans competing shall have hull identification as prescribed by the AYF.

100. When racing with disc rudders it is recommended that a positive means of retaining the rudder pins be employed, ie. a length of appropriate sized flexible rubber tubing fitted along the rudder pin above the gudgeon or the fitting of a pin through the rudder pin below the gudgeon.

TEAMS RACING

101. Each State Association shall be represented by one team only.
102. A team shall comprise four boats and consist of two 14' CAT class catamarans and either two 14' SLOOP class catamarans or one 14' SLOOP and one SUPER 14 class catamarans. In the event of any State Association being unable to field such a team, the composition of the teams may be changed by majority vote of the team captains.
103. The course shall comprise a triangle plus a windward and return lap with the finish to windward. The triangles shall have 60 degree angles with each leg being between 900 and 1100 metres long. There shall be provision to shorten the course at any mark.
104. Should the series not be completed on the day nominated in the Sailing Instructions it shall be completed on a lay day or any other nominated resail day.
105. Teams races shall be conducted as prescribed by the AYF.

SCRUTINEERING CERTIFICATE

106. A current scrutineering certificate must be held by the skipper of each competing Windrush catamaran.
107. The expiry date of scrutineering certificates will be September 30, each year. It is the responsibility of the scrutineer to ensure that all items on the certificate are sighted at the time of issue. It is permissible to have details on the certificate changed and authorised by the scrutineer from time to time (eg. new hulls may be purchased which require the form amended).
108. Prior to competing in National and State championship events and any other events determined from time to time by National and/or State Associations, a current scrutineering certificate must be produced.
109. The certificate must contain the following:
- (a) Boat name and sail number.
 - (b) Boat weight (dry) without any weights added.
 - (c) Hull registration number and weight of each hull (if visible) which was affixed by Windrush Catamarans at the time of manufacture. These are stamped on the rear beam pivot casting.
 - (d) The complicity of "Windrush Production" item:- eg. hulls, beams and/or tramp frame, trampoline, rudder system, spars, jib sheeting arrangement, and sail, etc.
 - (e) The complicity of "Production Form" item:- eg. disc rudders, mainsheet system, downhaul/vang, standing rigging and running rigging, etc.
 - (f) Length of bridle, forestay and sidestays.
 - (g) Dimensions of "Production Form" sails.

WINDRUSH SPECIFICATIONS

GENERAL

110. This section deals with the specifications which apply to those items that are specified as "Production Form" or those that may be assembled using "Windrush Production" components as a repair (For example a replacement mast extrusion to be fitted out with original "Windrush Production" components from a damaged mast).

BOATWEIGHT

111. The Windrush 14' shall have a minimum weight of 77.1 kilograms (or 170 pounds). Boats shall be weighed without water in hulls or lockers, lockers empty, minus mast, rigging, mainsheet, blocks and jib cleat assembly. Boats fitted with disc rudders shall weigh a minimum of 73.6 kilograms (or 162 pounds). The onus shall be on the skipper/owner of the boat to supply, fix and maintain any weights required to comply with this rule.

SPARS AND BEAMS

112. The distance from the bearing point of the "U" in the mast base casting the bearing point on the mast hound fitting shall be between 4.810 metres and 4.835 metres.

113. Front and rear beams shall be measured between the inner edges of the beam end castings (as per diagram) and the dimension shall be between 1.540 and 1.544 metres. (diagram not reproduced in this electronic copy)

STANDING RIGGING

114. Forestays and sidestays shall be made from stainless steel wire of nominal diameter not less than 3mm.

115. Stay lengths shall be measured in accordance with Rule 49 and shall fall between the following dimensions.

Windrush 14'

Non-adjustable forestays. 5.200 to 5.240 metres.

Adjustable single forestay. 4.575 to 4.610 metres.

Non-adjustable side stays. 4.905 to 4.935 metres.

Adjustable side stays. . 4.720 to 4.770 metres.

Jib strop/forestay bridle. Not less than 2.160 metres
(measured between the bearing surfaces of the snap hook).

PRODUCTION FORM SAILS

116. Sails shall be measured by the procedure described in rules 84 to 90 and shall conform to the following maximum dimensions.

Windrush 14'

Mainsail

Luff	6.46 metres
Leech	6.46 metres
Foot	2.27 metres
Cross widths:	3/4 2.21 metres
	1/2 1.88 metres
	1/4 1.25 metres
	1/8 0.76 metres

Jib

Luff	4.29 metres
Leech	4.00 metres
Centre	4.21 metres
Foot	1.435 metres
Head	0.06 metres

CLASS EMBLEM

117. The dimensions and shape of the class emblem shall be the same as those used on "Windrush Production" sails. The dimensions appear below. (sketch not reproduced in this electronic copy)