

INTRODUCTION

The Phantom 295 Class is devoted to easy accessible, but high performance racing - as a step up class from other Youth or Entry level classes.

The Phantom 295 hulls, hull appendages, rigs and sails shall only be supplied by Starboard Co. Ltd and produced by its appointed manufacturers. Such equipment is required to comply with the Phantom 295 One Design building Specification and is subject to an ISAF approved manufacturing control system.

After Phantom 295 hulls, hull appendages, rigs and sails have left the manufacturer, they may only be altered to the extent permitted in Section C of these class rules.

Rules regulating the use of equipment during a race are contained in Section C of these class rules.

This introduction only provides an informal background and the Phantom 295 Rules proper begin on the next page.

PLEASE REMEMBER

THESE CLASS RULES ARE CLOSED CLASS RULES WHERE IF IT DOES NOT SPECIFICALLY SAY THAT YOU MAY THEN YOU SHALL NOT.

INDEX

	Section D- Hull
	D.1 Manufacturers
	D.2 Identification
	D.3 Materials, Construction & Dimensions
	D.4 Fittings
PART I - ADMINISTRATION	
Section A - General	Section E - Hull Appendages
A.1 Language	E.1 Parts
A.2 Abbreviations	E.2 Manufacturers
A.3 Authorities and Responsibilities	E.3 Identification
A.4 Class Rules Variations	E.4 Materials, Construction & Dimensions
A.5 Class Rule Interpretations	
A.6 Sail Numbers	Section F - Rig
A.7 Licensed Manufacturers	F.1 Parts
	F.2 Manufacturers
Section B - Equipment Eligibility	F.3 Identification
B.1 Event Inspection	F.4 Materials, Construction & Dimensions
B.2 Event Limitation Marks	
PART II - REQUIREMENTS AND LIMITATIONS	F.5 Fittings
Section C - Conditions for Racing	Section G - Sails
C.1 General	G.1 Parts
C.2 Crew	G.2 Manufacturers
C.3 Personal Equipment	G.3 Identification
C.4 Portable Equipment	G.4 Materials, Construction & Dimensions
C.5 Advertising	G.5 Fittings
C.6 Hull	
C.7 Hull Appendages	PART III- APPENDICES
C.8 Rig	Section H - Measurement Instructions
C.9 Sails	

PART I - ADMINISTRATION

Section A - General

A.1 LANGUAGE

A.1.1 The official language of the class is English and in case of dispute over translation the English text shall prevail.

A.1.2 The word "shall" is mandatory and the word "may" is permissive.

A.2 ABBREVIATIONS

PCA Phantom Class Association

NCA National Class Association

A.3 AUTHORITIES AND RESPONSIBILITIES

A.3.1 The international authority of the class is the PCA.

A.3.2 No liability or legal responsibility in respect of these **class rules** can be accepted by the PCA, or its delegated representatives.

A.4 CLASS RULES VARIATIONS

A.4.1 These **class rules** shall not be amended, suspended or overridden in the Notice of Race or Sailing Instructions without the approval of the PCA.

A.5 CLASS RULE INTERPRETATIONS

A.5.1 Interpretation of **class rules** shall be made in by the PCA.

A.6 SAIL NUMBERS

A.6.1 Sail numbers may be issued nationally –ie , each country issues its own numbers. If the owner's NCA is administering the Class, the owner shall apply to their NCA for a sail number; otherwise they shall apply to the PCA

A.7 LICENSED MANUFACTURERS

A.7.1 Phantom 295 One Design equipment shall be produced by manufacturers appointed and licensed by Starboard Co. Ltd. in consultation with the PCA referred to as licensed manufacturers in these **class rules**.

Section B - Equipment Eligibility

For a **windsurfer** to be eligible for *racing*, it shall comply with the rules in this section.

B.1 EVENT INSPECTION

The role of **Equipment Inspectors** at an event is to ensure compliance with these **class rules**. Where an Equipment Inspector determines that an item of equipment need further investigation they shall use whatever inspection methods they deem appropriate, including comparison with a standard or a sample of other equipment presented for inspection.

B.2 EVENT LIMITATION MARKS

B.2.1 If an event uses **event limitation marks**, these marks shall not be removed during the event. If the **event limitation mark** becomes damaged or lost, this shall be reported to the event Race Committee as soon as practical.

B.2.2 Some items of equipment may receive two **event limitation marks**, one in a readily visible position and a second in a position protected from wear and tear.

B.2.3 If a **windsurfer** item has to be replaced, the Race Committee shall attach an **event limitation mark** to the replacement item and remove or deface any **event limitation mark** attached to the replaced item.

PART II - REQUIREMENTS AND LIMITATIONS

The **crew** and the **windsurfer** shall comply with the Rules in Part II when *racing*. In case of conflict

Section C shall prevail.

The rules in Part II are **closed class rules**, where anything not specifically permitted by the **class rules** is prohibited.

Section C - Conditions for Racing

C.1 GENERAL

C.1.1 During a race only one **hull**, one **fin**, one **centerboard**, one **rig** and one **sail** shall be used.

C.2 CREW

C.2.1 LIMITATIONS

The **crew** shall consist of one person.

C.2.2 MEMBERSHIP

No **crew** is permitted to race at a National or International Regatta unless he/she is a member of his/her NCA. If there is no NCA, then the **crew** must be a member of the PCA.

C.2.3 DIVISIONS

At events where the organizing authority specifies the weight divisions the following shall apply:

- (a) Light-weight – a sailor below 68kg
- (b) Medium-weight – a sailor between 68kg to 78kg
- (c) Heavy-weight – a sailor above 78kg

C.3 PERSONAL EQUIPMENT

C.3.1 **Personal equipment** does not have to be produced by a licensed manufacturer.

C.3.2 SAFETY AND LIFE SAVING EQUIPMENT

Competitors are not obliged to wear or carry personal life saving equipment (personal flotation device). If the wearing of a **personal flotation device** is prescribed it shall conform to the minimum standards of ISO 12402-5. Alternative or additional standards may be prescribed in the Notice of Race.

C.3.3 OPTIONAL

In addition to food and personal effects to keep warm and/or dry, and/or to protect the body, the following may be worn or carried by competitors:

- (i) Harness.
- (ii) A drinking container that shall have a capacity of at least one litre and weigh not more than 1.5 kilograms when full.
- (iii) An electronic or mechanical timing device.
- (iv) A heart rate monitoring device.

C.3.4 MANDATORY

Clothing and equipment, including harness but excluding beverage container, worn or carried by the **crew** shall not weigh more than 9kg.

C.4 PORTABLE EQUIPMENT

C.4.1 Portable equipment does not have to be produced by a licensed manufacturer.

C.4.2 OPTIONAL

A towrope of minimum length 5m and a recommended thickness of 4 mm may be carried by the **crew**. The use of the towrope may be specified as compulsory in an event's Notice of Race or Sailing Instructions.

C.5 ADVERTISING

C.5.1 LIMITATIONS

Advertising shall only be displayed in accordance with the PCA Championship Rules.

C.6 HULL

C.6.1 LIMITATIONS

- (a) Only one **hull** shall be used during an event, except when lost or damaged beyond repair. A replacement may be made only with the approval of the Race Committee.
- (b) A maximum of six and a minimum of four foot straps shall be fitted to the existing inserts using any stainless steel screw and washer. Foot straps shall be fitted with at least one screw and washer at each end. The foot straps may be changed or replaced during an event.

C.6.2 HULL WEIGHT

- (a) The **hull weight**, including complete mast track and gasket assembly, shall not be less than 13.5kg.
- (b) Any **corrector weights** installed by the manufacturer shall not be altered.

(c) The **hull** may be weighed wet after a minimum of 10 minutes standing vertically on its aft edge.

C.6.3 MAINTENANCE AND MODIFICATIONS

- (a) The **hull** shall not be altered in any way except as permitted by these **class rules**.
- (b) Repairs may be carried out provided such repairs are made in such a way that the essential shape, characteristics or function of the original are not affected. The serial number shall remain legible.
- (c) The underside of the **hull** may be rubbed down and polished.
- (d) The **centreboard** cassette may be shimmed.
- (e) The deck grip may be restored to its original condition with a clear coating provided that the original deck graphics can be clearly seen.

C.7 HULL APPENDAGES

C.7.1 LIMITATIONS

- (a) Only one **centreboard** and one **fin**, as supplied by the manufacturer, shall be used during an event, except when lost or unintentionally damaged beyond repair. A replacement may be made only with the same type of item and with the approval of the Race Committee.
- (b) The **centreboard** shall be carried in the centerboard case at all times when *racing*.

C.7.2 MAINTENANCE, MODIFICATIONS and REPAIRS

- (a) The **hull appendages** shall not be altered in any way except as permitted by these **class rules**.
- (b) Repairs may be carried out provided such repairs are made in such a way that the essential shape, characteristics or function of the original are not affected.
- (c) **Hull appendages** may be lightly sanded and/or polished providing that the essential shape and characteristics of the **hull appendage** are not affected.
- (d) The sides of the **fin** root may be shimmed to fit the **fin** box.

C.8 RIGS

C.8.1 LIMITATIONS

- (a) Only one **rig** may be used during an event, except when an item has been lost or damaged beyond repair. Such item may only be replaced with the same type of item and with the approval of the Race Committee.
- (b) Light-weight shall use the 7.5 **rig**;
Medium-weight shall use the 8.5 **rig**;
Heavy-weight shall use the 9.0 **rig**.

C.8.2 MAINTENANCE AND MODIFICATIONS

- (a) The **rig** shall not be altered in any way except as permitted by these **class rules**.
- (b) Repairs may be carried out provided such repairs are made in such a way that the essential shape, characteristics or function of the original are not affected.
- (c) The **mast spar** may be lengthened using any mast extension.
- (d) The **mast spar** extension may be shimmed with any self adhesive tape.
- (e) Any uphaul may be fitted.
- (f) Any adjustable or fixed downhaul may be used.
- (g) Any adjustable or fixed outhaul may be used.
- (h) The surface of the **boom spar** grip may be roughened using abrasive material.
- (i) Cleats, pulleys and ropes may be replaced by any of the same characteristics and function.
- (j) Any harness lines may be used.

C.9 SAILS

C.9.1 LIMITATIONS

- (a) Only one **sail** may be used in an event, except when the **sail** has been lost or unintentionally damaged beyond repair. A replacement may be made only with a **sail** of the same size and with the approval of the Race Committee.
- (b) Sailors competing in the Light-weight division shall use the 7.5 sq.m;
sailors competing in the Medium-weight division shall use the 8.5 sq.m sail;
sailors competing in the Heavy-weight division shall use the 9.0 sq.m sail.
- (c) Only one set of battens per **sail** shall be used during an event.

C.9.2 SAIL IDENTIFICATION

- (a) National letters and sail numbers shall be in capital letters and Arabic numerals, clearly legible and black in colour.
- (b) The characters shall be a minimum height of 230mm, and the space between adjoining characters shall be a minimum of 45mm.
- (c) The characters shall be applied "back to back" on an opaque white background, positioned immediately below batten 3 and as close to the leech as possible. The opaque background shall extend a minimum of 30mm beyond the national letters and sail number.

C.9.3 MAINTENANCE AND MODIFICATIONS

- (a) **Sails** and fittings shall not be altered in any way except as permitted by these **class rules**.
- (b) Repairs may be carried out provided such repairs are made in such a way that the essential shape, characteristic or function of the original is not affected.
- (c) Transparent self-adhesive mono-film patches may be attached to the **sail** adjacent to the **boom spar**.
- (d) Battens and camber inducers may be replaced by the same type of fitting supplied by the licensed manufacturer.

Section D - Hull

D.1 MANUFACTURERS

- (a) The **hull** and fittings shall be manufactured by a licensed manufacturer.
- (b) The **hull** shall be produced only by using moulds in the possession of the licensed manufacturer.

D.2 IDENTIFICATION

- (a) The **hull** shall carry the unique serial number issued by the licensed manufacturer in a legible condition.
- (b) **Hulls** shall display the official ISAF logo as applied by the manufacturer.

D.3 MATERIALS, CONSTRUCTION and DIMENSIONS

The **hull** shall comply with the Phantom 295 building specifications.

D.4 FITTINGS

- (a) mast track complete
- (b) centerboard cassette
- (c) fin box
- (d) gasket assembly
- (e) gaskets
- (f) towing eye
- (g) foot strap fixing inserts
- (h) foot straps

Section E - Hull Appendages

E.1 PARTS

- (a) **Fin**
- (b) **Centerboard**.

E.2 MANUFACTURERS

- (a) **Hull appendages** shall be produced only by licensed manufacturers.

E.3 IDENTIFICATION

- (a) The **centreboards** shall carry a unique ID number on the headstock applied by the manufacturer.

E.4 MATERIALS, CONSTRUCTION AND DIMENSIONS

Hull appendages shall comply with the Phantom 295 building specification.

Section F - Rig

F.1 Parts

- (a) 460 Phantom 295 one design mast – for use with the 7.5 sail.
- (b) 490 Phantom 295 one design mast – for use with the 8.5 sail and 9.0 sail.
- (c) 220>250 Phantom 295 one design boom – for use with the 7.5, 8.5 and 9.0 sails.

F.2 MANUFACTURERS

The **rig** spars shall only be produced by a licensed manufacturer.

F.3 MATERIALS, CONSTRUCTION AND DIMENSIONS

Mast & boom, and fittings shall comply with the Phantom 295 building specification.

F.4 FITTINGS

- (a) Mast Foot
- (b) Mast Extension

Section G – Sails

G.1 PARTS

- (a) 9.0 sq.m one design **sail**.
- (b) 8.5 sq.m one design **sail**.
- (c) 7.5 sq.m one design **sail**.

G.2 MANUFACTURERS

Sails and fittings shall be produced by a licensed manufacturer.

G.3 IDENTIFICATION

- (a) Class insignia shall be applied by the manufacturer.

G.4 MATERIALS, CONSTRUCTION and DIMENSIONS

The **sail** shall comply with the Phantom 295 building specification.

G.5 FITTINGS

- (a) Battens
- (b) Camber inducers.