

Viper Class Rules

Introduction:

The Viper 5.0 M catamaran produced by AHPC is a restricted high performance catamaran designed to offer high performance sailing at low cost by the restriction of equipment and construction materials.

The Viper can be sailed and raced either solo with main and spinnaker by 2 people with main, jib and spinnaker

1. Class Aims:

To produce one design racing with the Viper Class catamaran by restricting all elements that effect the speed and performance of the boat.

Allow freedom of fittings and systems that do not affect performance for sailors to customise on the boat to their own preference.

2. Items Restricted to AHPC Supply:

Hulls.

Beams – striker assembly, internal reinforcements,

Jib self tacking unit.

Trampoline.

Centreboards.

Rudders.

Rudder stocks.

Mast and mast layout including the position of fittings.

Sails:- Mainsail Jib and Spinnaker.

Spinnaker ring and chute.

3. Restricted items not supplied by AHPC:

Standing rigging:- 3.0mm 1x19 minimum (3.2mm recommended) for sidestays, forestay, forestay bridle, diamond wires.

Trapeze wires:- 2.0mm 1x19 wire or 2.5mm Dyneema.

Spin pole:- 38 x 1.5 minimum diameter and wall thickness alloy tubing.

Boom:- 38 x 1.5 minimum diameter and wall thickness alloy tubing.

Battens – fibreglass or glass foam sandwich.

Spinnaker pole bridle – 3mm Dyneema

4. Derestricted items:

Mainsheet system.

Tiller extension.

Spinnaker sheet and blocks.

All ropes blocks and fittings not otherwise restricted

Viper dimensions and specifications

These Rules also define the requirements for Vipers that take part in handicap (non-class) events where the event sailing instructions require compliance with a boat's class rules.

Hulls maximum length (AL) is 5.00 m

Beam maximum width (Beam) is 2.50 m

Foils:

Daggerboard: maximum area under hull (Cb) is 0,18 m²

Daggerboard maximum length under hulls (Vlb) is 0,85 m

Sails shall be supplied by AHPC.

Main area (Cm) shall be a maximum of 15.0 m²

Main luff black band distance (Vlm) shall be a maximum of 8,13 m

Jib area (Cj) shall be a maximum 3.7 m²

Jib luff (Vlj) shall have a maximum vertical projection of 5,2 m

Spi area (Cspi) shall be a maximum of 17,5 m² maximum

When sailing in 2-up (CW) with main jib and spinnaker.

Weight of the complete Viper Weight (WS) shall be a minimum 129 kg.

Maximum number of people on trapeze (NT) – 2 people

If a carbon mast is use, 5 kg of corrector weight must be added on rear beam.

When sailing in 1-up (CW) with main and spinnaker.

Weight of the complete Viper Weight (WS) shall be a minimum 120 kg.

Maximum number of people on trapeze (NT) – 1 person

A carbon mast may be use.

Mast section and fittings shall be supplied or approved by AHPC.