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Status	Approved
Replacing	These Class Rules Replace and Revoke the Cape 31 International One Design Class Rules issued 20/05/2024.



Class Rules

Cape 31 International One Design



Table of Amendments

The following serves as a summary of amendments of substance (which change what a boat can and cannot do) since the last edition of the Class Rules.

Rule number	Description of Amendment
C.5.1(a)(vii)	New rule clarifying the manufacturer supplied fastenings (screws, bolts, rivets) can be replaced with fastenings which are similar in size and performance providing the weight of the replacement is at least the same if not greater than the original fastening.

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INTRODUCTION

This introduction only provides an informal background and the Cape 31 International One Design Class Rules proper begin on the next page.

The aim of the Cape 31 Class Rules is to provide boats which are as close to identical as reasonably possible in construction, hull shape, weight, weight distribution, equipment, rigging and sail plan.

Accordingly, coring, drilling out, rebuilding, replacement of material, grinding or relocating standard equipment, fairing interior or exterior parts of hull, hull appendages or rig that improves moments of inertia, or changes the standard shapes or contours is prohibited.

The Cape 31 Class hulls, hull appendages and rigs are manufacturing controlled. The Cape 31 Class hulls and hull appendages shall only be manufactured by the licensed boat manufacturer. Cape 31 Class rigs shall only be manufactured by the licensed spar manufacturer.

Cape 31 Class sails are measurement controlled and may be manufactured by any sailmaker.

Cape 31 Class hulls, hull appendages and rigs may, after having left the manufacturer, only be altered to the extent permitted by the Cape 31 International One Design Class Rules.

Owners and crews should be aware that compliance with rules in Section C (condition for racing) are NOT checked as part of the certification or manufacturing process. Rules controlling the use of equipment during a race are contained in Part II of the Class Rules, in Equipment Rules of Sailing Part I and in the Racing Rules of Sailing.

Sections D (Hulls), E (Appendages), F (Rig), G (Sails) cover requirements for the certification and maintenance of equipment.

The class permits in-house certification for sails.

When equipment and/or components are not allowed because they are not specifically permitted by the class rules, this restriction pertains not only to the use but also the presence of this equipment/component on board.

THESE RULES ARE CLOSED CLASS RULES. IF THE RULES DO NOT SPECIFICALLY SAY THAT YOU "MAY" THEN YOU "SHALL NOT."

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.1.3 Except where used in headings, when a term is in “**bold**” the definition in the ERS applies and when a term is in “*italics*” the definition in the RRS applies.

A.2 ABBREVIATIONS

- A.2.1 Association - Cape 31 Class Association

Class - Cape 31 Class

CMS – Class Management System ([Cape 31 Class Management System](#))

ERS – WS Equipment Rules of Sailing

Ex Comm - An appointed committee according to the Cape 31 International Class Association Constitution to represent the Class and owners to ensure the ethos and rules are adhered to.

Class Rule - A rule in these Cape 31 International One Design Class Rules

ICA – International Class Association

LBM – Licensed Boat Manufacturer

LSM – Licensed Spar Manufacturer

MNA – WS Member National Authority

NCA – National Class Association

OSR – WS Offshore Special Regulations

RRS - Racing Rules of Sailing

WS - World Sailing

A.3 AUTHORITIES

- A.3.1 The **Class Authority** and the **Class Rules Authority** is the Ex Comm.

- A.3.2 Notwithstanding anything contained herein, the **Class Authority** may withdraw a **boat's** Builder **Certificate** if the **hull, hull appendages** or **spars** have been materially **modified**.
- A.3.3 Notwithstanding anything contained herein, the **Class Authority** may withdraw a **boat's certification** of any **sails** that fail to meet the specification in the **Class Rules**.
- A.3.4 The **Class Authority** may consider granting dispensation to a **boat** or collection of **boats**, temporary or otherwise, from one or more class rule where it is deemed necessary for reasons of practicality or force majeure.

A.4 ADMINISTRATION OF THE CLASS

- A.4.1 In countries where there is no NCA or the NCA does not wish to administrate the class, the administrative functions as stated in the **Class Rules** shall be carried out by the ICA.

A.5 CLASS RULE CHANGES

- A.5.1 At events, RRS 87 governs changes to **Class Rules**. Where a class rule does not permit the change of that rule at events, any change shall be approved by the **Class Rules Authority** and posted on the event's official notice board.

A.6 CLASS RULES AMENDMENTS

- A.6.1 Amendments to the **Class Rules** shall be proposed to and approved by the **Class Rules Authority** in line with the Cape 31 International Class Association Constitution.

A.7 CLASS RULES INTERPRETATION

- A.7.1 Interpretation of the **Class Rules** shall be made by the **Class Rules Authority** in consultation with the LBM and LSM when appropriate.
- A.7.2 Any paid up member of the Association may submit a query regarding the **Class Rules** on the CMS. If the answer is deemed straightforward, the Class Measurer duly appointed by the **Class Authority**, in consultation with the LBM and LSM as appropriate, will consider the question and provide an answer, in other cases an interpretation will be considered by the **Class Rules Authority**.

A.8 SAIL NUMBERS AND BOW NUMBERS

A.8.1 Sail numbers shall be issued by an MNA

A.8.2 **Boat** bow numbers are issued as per the order of **hull** manufacture starting at 1.

A.9 CERTIFICATION

A.9.1 The Builder **Certificate** shall record the following information:

- (a) **Hull** identification number matching the number on the **hull**;
- (b) Builder details; and
- (c) Date of issue of initial Builder **Certificate**.

A.10 VALIDITY OF CERTIFICATE

A.10.1 The Builder **Certificate** becomes invalid upon **modification** or damage (which changes the original condition) to:

- (a) The **Hull**;
- (b) **Hull appendages**;
- (c) Builder supplied **fittings**; or
- (d) **Bowsprit**.

A.10.2 The Builder **Certificate** will not become invalid if the **modification** in A.10.1 is conducted in compliance with the **Class Rules**.

A.11 RE-CERTIFICATION

A.11.1 The **Class Authority** shall reinstate a Builder **Certificate** to a previously certified **hull** and **hull appendages** once a Class measurer so designated by the **Class Authority** confirms to the LBM that the **hull** and **hull appendages** have been restored to conformity with the **Class Rules**.

A.11.2 Details of any relevant remedial work or **repair** shall be recorded on the Builder **Certificate**.

A.12 RETENTION OF DOCUMENTATION

A.12.1 The Owner(s) shall retain the valid Builder **Certificate**, copies of which may be required on registration for Class races or Class Regattas.

A.12.2 A copy of each valid Builder **Certificate** for each **boat** shall be retained by the LBM.



A.12.3 The Owner(s) shall lodge copies of their **boat's** Builder **Certificate** with the **Class Authority**.

Section B – Boat Eligibility

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

B.1 CLASS RULES AND CERTIFICATION

B.1.1 The **boat** shall:

- (a) be in compliance with the **Class Rules**;
- (b) have a valid Builder **Certificate**;
- (c) have a valid Association Membership Sticker affixed to the starboard cockpit completely within 400mm from the transom; and
- (d) have valid **Certification Marks** as required by the **Class Rules**.

B.2 EQUIPMENT INSPECTION

B.2.1 In the case of a dispute at a Class event alleging non-compliance with the **Class Rules** where specific measurements are not stated, the event **Equipment Inspector(s)** shall adopt the following procedure:

- (a) **Fundamental measurement** of the disputed item(s) shall be taken from a randomly selected control group of three **boats**.
- (b) **Fundamental measurement** (using the same techniques as for the control group) shall be taken for the disputed item(s) and shall be compared to the results of the control group.
- (c) If the **fundamental measurements** taken from the disputed item lies inside the corresponding range of **fundamental measurements** for the control group, the item shall be deemed to comply with the **Class Rules** and the **boat** remains eligible for *racing*.
- (d) If any of the **fundamental measurements** taken from the disputed item(s) lie outside the corresponding range of **fundamental measurements** for the control group, the matter together with the details of the **fundamental measurement** methods and any other relevant information, as may be further requested, shall be referred to the **Class Authority** for a final decision.
- (e) For specific Class events where the ICA has appointed the Technical Committee referred to in RRS 92, the **Class**



Authority and **Class Rules Authority** will delegate their respective functions in the **Class Rules** to such a Technical Committee and an appropriate notice of delegation will be posted on the Official Notice Board specifying which functions have been delegated.

PART II – REQUIREMENTS AND LIMITATIONS

The **crew** and the **boat** 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**. **Certification control** and **equipment inspection** shall be carried out in accordance with the ERS except where varied in this Part.

Section C – Conditions for Racing

C.1 GENERAL

C.1.1 RULES

- (a) The ERS Part I – Use of equipment shall apply.
- (b) The **boat** shall comply with OSR category 4 except for the following:
 - (i) OSR 3.18.2 Permanently installed toilet or fitted bucket.
 - (ii) OSR 3.19.1 Permanently installed bunks.
 - (iii) OSR 3.24a) Permanently installed marine magnetic steering compass, independent of any power supply, correctly adjusted with deviation card.
 - (iv) OSR 4.27.3(b) such that the heavy weather jib does not need to be capable of hoisting independent of a luff grove.

C.2 CREW

C.2.1 LIMITATIONS

- (a) The **crew** shall consist of 4 or more persons.
- (b) The **crew** shall be declared on the CMS at least 48 hours before the first scheduled race.
- (c) **Crew** members may be substituted and/ or the number of **crew** may be changed during an event providing the relevant combinations of crew are declared in the regatta crew list on the CMS. If not declared in the regatta crew list, the **crew** shall not be changed during an event except in exceptional circumstances with prior permission of the **Class Authority**.
- (d) A **boat** shall not have more than three **crew** with a WS Group 3 categorisation on board. **Crew** without a valid Group 1 sailor

categorisation shall be considered to hold a Group 3 categorisation for the purpose of this class rule. The "Categorization Protest Time Limit" referred to in WS Regulation 22 shall be 24 hours after the crew declaration deadline specified in (b) above.

C.2.2 WEIGHTS

	Maximum
Total weight of the crew dressed in light street clothes. (This rule may be amended by the Notice of Race)	595 kg

- (a) The majority owner or lead charterer may elect to declare their actual weight or shall be allocated a weight of 85kg.
- (b) At events with random **crew** weighing, weighing shall take place after all races on a given day and shall take place after a maximum of 1 hour's notice. The penalty for a **crew** which is greater than the maximum permissible shall be disqualification from all races on the day of the weighing.
- (c) At events with random **crew** weighing, the scales to be used for random weighing shall be made available the day before the first random **crew** weighing for **crew** to use to check their weight. The times and location of the access to the scales shall be communicated to all persons in charge the day before the first random **crew** weighing.

C.2.3 HELMSMEN

- (a) Except in an emergency a **boat** shall be helmed by its owner, part owner, charter helmsmen or approved alternative which shall have paid the applicable Class fees.
- (b) Notwithstanding rule C.2.3(a), a **boat** may be helmed by any other member of the **crew** for a maximum of 5 minutes except:
 - (i) At the start;
 - (ii) At the finish; or
 - (iii) At a mark rounding

The use of this rule shall not be repeated during a race.

- (c) For the purpose of rule C.2.3(a) the following terms apply:

- (i) Owner means a person owning 100% of a **boat** and contributing an equivalent proportion to the running costs.
 - (ii) Part owner means a person owning a significant proportion of a **boat** and contributing an equivalent proportion to the running costs.
 - (iii) Charter Helmsmen means a person chartering a **boat** for several Class events or a single Class event which has submitted a copy of the charter agreement to the NCA of the event(s), or ICA for international events and paid an appropriate charter fee for the charter period.
 - (iv) Alternative helm means a person approved by the NCA or ICA for international events in accordance with rule C.2.3(f)
- (d) To determine if a person is an owner or part owner, the NCA of the event(s) or ICA for international events may ask to see documents as proof of ownership which may include but is not limited to:
- (i) Registration Certificates;
 - (ii) Bill of Sale; or
 - (iii) Insurance Policy.
- (e) If a **boat** is owned by a company or corporation the principal owner of that organisation may be considered by the NCA of the event(s) or ICA for international events as the owner or part owner.
- (f) For a Part Owner owning less than 50% of a **boat** or an Alternative Helmsmen to helm a **boat**, the owner or charterer of that **boat** shall submit a request for permission to the NCA of the event or ICA for international events a minimum of five calendar days before the start of the event in question including evidence that the Part Owner or Alternative Helmsman meets the following criteria:
- (i) Holds a valid WS Group 1 categorisation;
 - (ii) In the previous 6 years has only held a WS group 1 categorisation or would otherwise be so categorised if a categorisation was not held;

- (iii) Not competed in any of the following in the previous fifteen years; the Olympics (sailing), the Ocean Race, the America's Cup or Challenger Series; and
- (iv) In the previous fifteen years not been in the top 50 of the world match racing rankings.

The **Class Authority** may waive the requirement of (i) to hold a Group 1 categorisation for a direct family member of an owner.

- (g) In the event an owner or approved alternative is unavoidably absent, the **Class Authority** may approve an alternative or further alternative, respectively, for a limited time period.

C.3 PERSONAL EQUIPMENT

C.3.1 OPTIONAL

- (a) Clothing and personal effects usually used in the sport of keel boat racing.

C.4 PORTABLE EQUIPMENT

C.4.1 MANDATORY

- (a) FOR USE
 - (i) An Anchor and chain of combined minimum weight of 8kg.

C.4.2 OPTIONAL

- (a) FOR USE
 - (i) Electronic or mechanical timing devices.
 - (ii) Tactical and navigational instruments and charts.
 - (iii) Winch handles.
 - (iv) Mooring lines, fenders, spare lines, spare equipment, tools, sail bags, storage bags, and other items that provide no sailing performance advantage.
 - (v) Portable toilet.
 - (vi) Spare items that are permitted by the class rules to be used in the event of damage whilst afloat (for example spare stanchions, lines etc.)

C.5 BOAT

C.5.1 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) The following may be replaced provided the replacement part is of similar size, weight, location power ratio and performs the same function:
- (i) Blocks.
 - (ii) Cleats.
 - (iii) Mainsheet swivel base.
 - (iv) Shackles and pins.
 - (v) Primary winches from one of the following replacement options:
 - Harken 40.2STP Performa Self-tailing Winch;
 - Harken 40.2PTP Performa Plain top Winch; or
 - LEWMAR 49540075 EVO 40 SPORT WINCH ALLOY BLACK.The winch manufacturer's kit may be used to add/remove the self tailer from primary winches.
 - (vi) Runner winches from the following replacement options:
 - Harken 35.2STP Performa Self-tailing Winch; or
 - LEWMAR 49730055 EVO 30ST RACE WINCH ALLOY BLACK.
 - (vii) **Fastenings** and other non-performance enhancing components used in the construction of the **boat** providing the replacement has the same or greater weight than the original part(s) and no new holes, **fairings** or **modifications** to the associated **fittings** or structures are made during the replacement.
- (b) Owners with significant physical disability may apply to the **Class Authority** to allow specific adaptations to be fitted to the **boat**.
- (c) **Repairs** and **maintenance** in D.1.3(d) and (f), and E.1.3(d) and (f) shall only be permissible if the owner or their representative completes the application or declaration, as applicable, on

CMS.

C.5.2 MANDATORY FITTINGS

- (a) A rear gate formed by a continuation of the lifelines port and starboard, closed such that the lines shall not deflect more than 75mm when a mass of 5kg is attached at the point of maximum deflection.

C.5.3 OPTIONAL FITTINGS

- (a) Below-deck **gennaker** bags, rollers, guides and retrieval gear of optional design.
- (b) A **jib** hobble system.
- (c) Cleats for **gennaker sheets**.
- (d) A batten not to exceed 150mm added to the end of the **bowsprit** as a preventer for the **gennaker sheet**.
- (e) **Sheet**-tail bags and winch-handle holders fitted to the sides of the cockpit.
- (f) Footrests supplied by the LBM and fixed to the cockpit floor, location is optional.
- (g) Non-slip material on deck and/ or **bowsprit** to promote safe movement.
- (h) Protective plates attached to the deck under the **gennaker** turning blocks.
- (i) An anti-chafe protective sleeve over the **boom** vang system.
- (j) Padding on the lower lifelines.
- (k) Tubing on the upper lifelines forward of the **shrouds** to protect the **gennaker**.
- (l) Lashing, tape and other anti-chafe gear on the **hull, rig** or **sails**.
- (m) Take up wheel for **gennaker sheets, gennaker** retrieval line and all **halyards**.
- (n) Bushes for the purpose of **sheet** reelers.
- (o) Padeyes attached to the **hull**, providing they are fitted by way of bonding.

C.5.4 HAUL OUT AND DIVING

- (a) **Boats** shall not be hauled out during a regatta, except with prior permission of the **Class Authority** in exceptional

circumstances.

- (b) During a regatta of 3 days or less, a **boat** shall not be cleaned by a person entering the water except to remove weed or to check for damage.
- (c) If a regatta is longer than 3 days a **boat** may be cleaned by a person entering the water either with or without breathing apparatus on the 4th day and every second day thereafter i.e. day 4, 6, 8 etc.

C.6 RIG

C.6.1 MAST

- (a) USE
 - (i) The **mast heel point** shall not be adjusted.
 - (ii) Tape, paint and padding on the **spreaders**, for chafe protection or marking is permitted.

C.6.2 STANDING RIGGING

- (a) USE
 - (i) The **shrouds** and **forestay** shall not be adjusted.
 - (ii) The **shrouds** and **forestay** shall remain attached to the **mast** and **hull** while the **boat** is afloat on race days.

C.6.3 RUNNING RIGGING

- (a) The **gennaker sheets** shall be led through the standard block locations.

C.7 SAILS

C.7.1 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) **Sails** shall not be altered in any way except as permitted by the **class rules**.
- (b) Battens may be placed in **batten pockets**.

C.7.2 LIMITATIONS

- (a) Not more than 1 **mainsail**, 3 **headsails** (one of which shall be a heavy weather jib described in OSR 4.26.1) and 3 **Gennakers** shall be on board. The Notice of Race may change this class rule.
- (b) The heavy weather jib required by OSR 4.26.1 shall be on board and shall weigh at least 8kg.

- (c) The **crew** may select **sails** for a race day prior to leaving their berth. The selected **sails** shall remain the same for all races that day.
- (d) Should a **sail** be damaged beyond **repair** during a regatta, the owner of the **boat** or their representative may apply to the **Class Authority** for a replacement **sail** to be declared on the CMS in place of the destroyed **sail**.
- (e) Notwithstanding C.7.2(c), should a **sail** be damaged beyond use while *racing* it may be substituted, with prior permission of the Technical Committee (or at an event without a Technical Committee the Race Committee), for another **sail** for use in further races that day providing the substitute is of the same type and has been declared on the CMS as per G.2.2(c)

C.7.3 MAINSAIL

(a) USE

- (i) The **sail** shall be hoisted on a **halyard**. The arrangement shall permit hoisting and lowering of the **sail** whilst afloat.
- (ii) The **luff** bolt rope shall be in the **mast** groove or track and the **clew** shall be secured to the **boom**.

C.7.4 HEADSAIL

(a) USE

- (i) The **luff** tape shall be in the **forestay** foil and hoisted on a **halyard**.

C.7.5 GENNAKER

(a) USE

- (i) A **gennaker** retrieval line may be attached to the **sail**.
- (ii) The **gennaker** shall be **set flying** without a furling arrangement.
- (iii) The **gennaker** shall be set from the **bowsprit** and hoisted on a masthead **halyard**.

C.8 SUPPORT BOATS

C.8.1 GENERAL

- (a) Except in an emergency or with prior permission of the Technical Committee (or at an event without a Technical Committee the Race Committee); a boat shall not be towed to, from, or in the race

area.

- (b) A boat and **crew** shall not receive outside help from a support boat from leaving its berth until it *finishes* its last race on each race day unless it has prior permission from the Technical Committee (or at an event without a Technical Committee the Race Committee).
- (c) The outside help referred to in (b) above refers, but is not limited, to:
 - (i) Transferring **crew**;
 - (ii) Transferring food or drink;
 - (iii) Transferring **sails**, spares, fuel or other equipment; and
 - (iv) Having contact of any nature including by radio, telephone, data transfer, vocal or visual signal (i.e. tactical placement, flags and/or different colours of clothing).
- (d) Notwithstanding, (b) above, the Organising Authority may designate one or more event support boats which **crew** may communicate with whilst not *racing*. The description of such boats shall be posted on the Official Notice Board.
- (e) Support boats shall not approach closer than 100 metres of a boat that is *racing*, except at a mark rounding or the finish where they shall not approach closer than 40 metres to the *mark* or finish line.
- (f) At the Warning Signal support boats shall leave the race area and may station themselves outside of either the committee boat or the start line outer distance mark, but no closer to either end than 40 metres.
- (g) Infringements of this class rule may result in a penalty to the boat associated with the support boat and may be either place penalties or disqualification at the discretion of the Protest Committee or International Jury, as applicable.
- (h) This rule may be amended by the Notice of Race.

Section D – Hull

D.1 GENERAL

D.1.1 RULES

- (a) The **hull** and **bowsprit** shall comply with the **class rules** in force at the time the initial Builder **Certificate** is issued.

D.1.2 MANUFACTURER

- (a) The **hull** including **bowsprit** shall be built by a licensed manufacturer.

D.1.3 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) The **hull** and **bowsprit** shall not be altered or **modified** from the state supplied by the LBM in any way except as permitted by the **class rules**.
- (b) If a **hull** is considered to have changed from its supplied shapes it shall be the responsibility of the owner or owner's representative of that **hull** to prove this is not the case.
- (c) The **Class Authority** may ask for evidence, including but not limited to a full **hull** laser scan and hull coring at the owner of the suspect **hull's** expense. If it is found that **fairing** has been carried out, the Builder **Certificate** shall be withdrawn.
- (d) The **hull** and **bowsprit** may be lightly abraded to allow for the application of paint. The abrasion shall be the minimum needed to remove any old paint and ensure adhesion of new paint. If a rigid 'sanding block' is used to abrade the **hull** or **bowsprit**, it shall not be longer or wider than 300mm. Old anti-fouling may be removed using a commercially available anti-fouling remover. The final finish may be of any commercially available paint.
- (e) Scratches and minimally damaged areas of the **hull** and **bowsprit** may be repaired by the owner or at the owner's direction.
- (f) Any more serious damage shall be **repaired**, under the direction of the **Class Authority**. Details of such **repairs** shall be recorded on the Builder **Certificate**.
- (g) Holes may be made and local reinforcement applied for the fitting of electronic navigational systems.

D.1.4 FITTINGS

- (a) MANDATORY
 - (i) The **fittings** as supplied by the LBM.
- (b) OPTIONAL
 - (i) Electronic navigational systems.

D.1.5 IDENTIFICATION

- (a) The **Hull** shall carry the **Hull** Identification Number on the transom.

Section E – Hull Appendages

E.1 PARTS

E.1.1 MANDATORY

- (a) **Keel** including **bulb**
- (b) **Rudder**
- (c) Sail drive

E.2 GENERAL

E.2.1 RULES

- (a) **Hull appendages** shall comply with the **class rules** in force at the time the initial Builder **Certificate** is issued.

E.2.2 MANUFACTURERS

- (a) **Hull appendages** shall be built by a licensed manufacturer.

E.2.3 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) The **hull appendages** shall not be altered or **modified** from the state supplied by the LBM in any way except as permitted by the **class rules**.
- (b) If a **Hull appendage** is considered to have changed the supplied shapes it shall be the responsibility of the owner or owner's representative of that **hull appendage** to prove this is not the case.
- (c) The **Class Authority** may ask for evidence, including but not limited to a full **hull appendage** laser scan at the owner of the suspect **hull appendage's** expense. If it is found that **fairing** has been carried out, the Builder **Certificate** shall be withdrawn.
- (d) **Hull appendages** may be lightly abraded to allow for the application of paint. The abrasion shall be the minimum needed to remove any old paint and ensure adhesion of new paint. If a rigid 'sanding block' is used to abrade the **hull appendages**, it shall not be longer or wider than 300mm. Old anti-fouling may be removed using a commercially available anti-fouling remover. The final finish may be of any commercially available paint.

- (e) Scratches and minimally damaged areas of the **hull appendages** may be repaired by the owner or at the owner's direction.
- (f) Any more serious damage shall be **repaired**, under the direction of the **Class Authority**. Details of such **repairs** shall be recorded on the Builder **Certificate**.
- (g) **Keel** and **Rudder** templates, approved by the LBM and Mills Design, may be used by a measurer so authorised by the **Class Authority** to check shape conformity.

E.2.4 FITTINGS

- (a) MANDATORY
 - (i) The **fittings** as supplied by the LBM.

E.3 KEEL

E.3.1 INSTALLATION

- (a) The keel and bulb shall be supplied and installed as per the LBM's instructions.

E.3.2 WEIGHTS

	Minimum (kg)	Maximum(kg)
Keel including fin, bulb , fin-to-bulb attachment pins, primer and paint, and two M20 keel locking bolts.	708	723

E.4 SAILDRIVE AND ENGINE

E.4.1 ARRANGEMENT

- (a) The engine, drive leg and Gori propeller shall be the standard Yanmar engine (raw water-cooled model) coupled to a saildrive; or equivalent equipment supplied by the LBM.
- (b) The approved engine is model number Yanmar 2YM15.

Section F – Rig

F.1 PARTS

F.1.1 MANDATORY

- (a) **Mast**
- (b) **Boom**
- (c) Standing **rigging**
- (d) Running **rigging**

F.2 GENERAL

F.2.1 RULES

- (a) The **mast, boom, spreaders** and associated **fittings** shall comply with the **class rules** in force at the time of manufacture and installation.
- (b) The standing and running **rigging** shall comply with the current **class rules**.

F.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR

- (a) **Spars** and **spreaders** shall not be altered or **modified** from the state supplied by the LSM in any way except as permitted by the **Class Rules**.
- (b) Any significant damage to the **mast, spreaders** or **boom** shall be **repaired** by, or under the direction of the LSM. Details of repairs to the **mast** shall be recorded on the **Boat's Mast Certificate**. **Standing rigging** may be replaced but shall be purchased through a Class agent.

F.2.5 MANUFACTURER

- (a) The **mast, boom** and **spreaders** shall be manufactured by a licensed **spar** manufacturer.

F.3 MAST

F.3.1 FITTINGS

(a) MANDATORY

- (i) The **fittings** as supplied with the **mast** by the LSM.

F.3.2 DIMENSIONS

	Minimum (mm)	Maximum (mm)
Mainsail luff mast distance		12540
Limit mark widths	20	

F.3.2 INSTALLATION

- (a) The **mast** as supplied shall be assembled and stepped in accordance with the rigging instructions.
- (b) The **mast** shall be capable of fitting into a 40-foot container when dismantled. No form of adhesive shall be used to **bond** the **mast** when joining the **mast** sections.
- (c) The **mast** partners shall be firmly secured and shall fit snugly to the mast.

F.4 BOOM

F.4.1 FITTINGS

(a) MANDATORY

- (i) The **fittings** as supplied with the **boom** by the LSM.

F.4.2 DIMENSIONS

	Minimum (mm)	Maximum (mm)
Outer point distance		4500
Limit mark width	20	

F.5 STANDING RIGGING

F.5.1 PARTS

(a) MANDATORY

- (i) A **forestay**
- (ii) **Shrouds**

F.5.2 FITTINGS

(b) MANDATORY

(i) The **fittings** as supplied by the LSM.

(b) OPTIONAL

(i) A tension gauge may be fitted to the **forestay**

F.5.3 CONFIGURATION

(a) The **forestay** shall use a 'Unit 0 Harken Carbo Foil' (<https://www.harken.com/productdetail.aspx?id=5874&taxid=534>) (part no. 7000.12m).

F.6 RUNNING RIGGING

F.6.1 MATERIALS

(a) Materials are optional.

(b) Core diameters of **running rigging** is unrestricted.

F.6.2 PARTS

(a) MANDATORY

(i) **Mainsail halyard**

(ii) **Mainsail sheet**

(iii) Boom vang

(iv) **Headsail halyard**

(v) **Headsail sheets**

(vi) **Gennaker halyard**

(vii) **Gennaker sheets**

(viii) **Running backstays**

(ix) Traveller

(x) **Mainsail outhaul**

(b) OPTIONAL

(i) **Headsail** lead

(ii) **Mainsail** Cunningham

(iii) **Gennaker** retriever

F.6.3 ARRANGEMENT

(a) Purchase systems are only permitted for the following **running**

rigging and shall not exceed the following maximum ratios:

- (i) **Main Halyard** 2:1.
- (ii) **Jib Halyard** 2:1 with additional not to exceed 8:1 as per drawing in Appendix AP1.
- (iii) **Running Backstays** 3:1.
- (iv) **Mainsail sheet** coarse tune purchase 4:1.
- (v) **Mainsail sheet** fine tune 16:1.
- (vi) Traveller purchase 4:1.
- (vii) Boom vang 16:1.
- (viii) **Headsail sheet** of either 1:1 or 2:1.
- (ix) **Headsail** lead purchase 8:1.
- (x) **Mainsail Outhaul** 4:1 inside the boom, but the tail may be led through the **mainsail clew** and dead-ended to the end of the **boom** to achieve 8:1.
- (xi) Main Cunningham 8:1.
- (xii) **Gennaker** retriever reverse 1:3.

Section G – Sails

G.1 PARTS

G.1.1 MANDATORY

- (a) **Mainsail**
- (b) **Headsail**

G.1.2 OPTIONAL

- (a) **Gennaker**

G.2 GENERAL

G.2.1 RULES

- (a) **Sails** shall comply with the **class rules** in force at the time of **certification**.

G.2.2 CERTIFICATION

- (a) The **official measurer** shall **certify mainsails** and **headsails** in the **tack** and **gennakers** in the **head** and shall sign and date the **certification mark**.
- (b) WS or an MNA may appoint one or more **In-House Official Measurers** to measure and **certify sails** produced by that manufacturer which shall **certify mainsails** and **headsails** in the **tack** and **gennakers** in the **head** and shall sign and date the **certification mark**.
- (c) The owner or their representative shall declare **mainsails** and **headsails** in the CMS by entering the serial number of the **certification mark**, or **sail** if the **certification mark** does not bear a serial number. The declared **sails** shall be within the allocation in G.2.4.

G.2.3 SAILMAKER

- (a) The manufacturer is optional, and no licence is required.

G.2.4 ALLOCATION

- (a) Each boat is entitled to declare (as per G.2.2(c)) 4 **sails** between 1 January and 31 December. These shall be allocated to a maximum of:
 - (i) 1 **mainsail**; and
 - (ii) 3 **headsails** (larger than a heavy weather jib).

In addition, a new boat, in its first calendar year of class racing may declare the allotment above twice i.e. is entitled to two full suits of sails in its first year of racing.]

- (b) There is no limit on heavy weather jibs or **Gennakers**.
- (c) Owners which compete in more than 6 class events in more than one NCA territory may apply to the **Class Authority** for a further 2 **sail** allocations between 1 January and 31 December which may be allocated to any **sail** type.
- (d) Charterers which are paid up class members but do not own a boat may purchase a single allotment of **sails** and transfer these to different chartered boats.
- (e) Owners which charter or Charterers may transfer their own **sails** to a chartered boat, or may use **sails** registered to the chartered boat, but shall not combine allocations. Owners shall not charter a boat and purchase a set of charter **sails**. Owners with multiple boats shall not transfer **sail** allocations from boat to boat.

G.2.5 MODIFICATIONS, MAINTENANCE AND REPAIR.

- (a) Routine **maintenance** such as sewing, mending existing material and patching is permitted without re-**certification**.
- (b) **Sails** may be **repaired** or **modified** by way of replacing the **body of the sail** without being considered a new **sail** requiring declaration as per G.2.2(c) providing no more than the following percentage of the original **sail** is replaced with new material:
 - (i) **Mainsail** 20%
 - (ii) **Headsail** 20%
- (c) After **repair** or **modification** mentioned in (b) above, **sails** shall continue to meet the dimensional requirements of the **class rules** in force at the time of original **certification** and shall be subject to **certification control** to verify the dimensions.

G.3 MAINSAIL

G.3.1 IDENTIFICATION

- (a) The class logo shall be displayed and positioned as per appendix AP2.
- (b) Sail numbers and national letters shall comply with the RRS.

G.3.2 MATERIALS

(a) Materials are optional.

G.3.3 CONSTRUCTION

(a) The construction shall be **soft sail**, otherwise construction is uncontrolled.

G.3.4 DIMENSIONS

	Minimum (mm)	Maximum (mm)
Top width		1120
Seven-Eighths Width		1520
Three-Quarter Width		2120
Half Width		3060
Quarter Width		3810

G.4 HEADSAIL

G.4.1 MATERIALS

(a) Materials are optional.

G.4.2 CONSTRUCTION

(a) The construction shall be **soft sail**.

(b) The **luff** shall be a lufftape to fit the forestay in class rule F.5.3(a).

(c) Construction is otherwise uncontrolled.

G.4.3 DIMENSIONS

	Minimum (mm)	Maximum (mm)
Luff length		12480
Luff Perpendicular		3730
Seven-Eighths Width		630
Three-Quarter Width		1120
Half Width		2000
Quarter Width		2870

G.4.4 AREA

(a) The area shall not exceed 24.67m².

- (b) The area shall be calculated as: $0.0625 * \text{Luff length} * (4 * \text{Luff Perpendicular} + 6 * \text{Half width} + 3 * \text{three quarter width} + 2 * \text{seven eighths width} + 0.09)$.

G.5 GENNAKER

G.5.1 CONSTRUCTION

- (a) Construction is uncontrolled.

G.5.2 IDENTIFICATION

- (a) Sail numbers and national letters shall comply with the RRS.

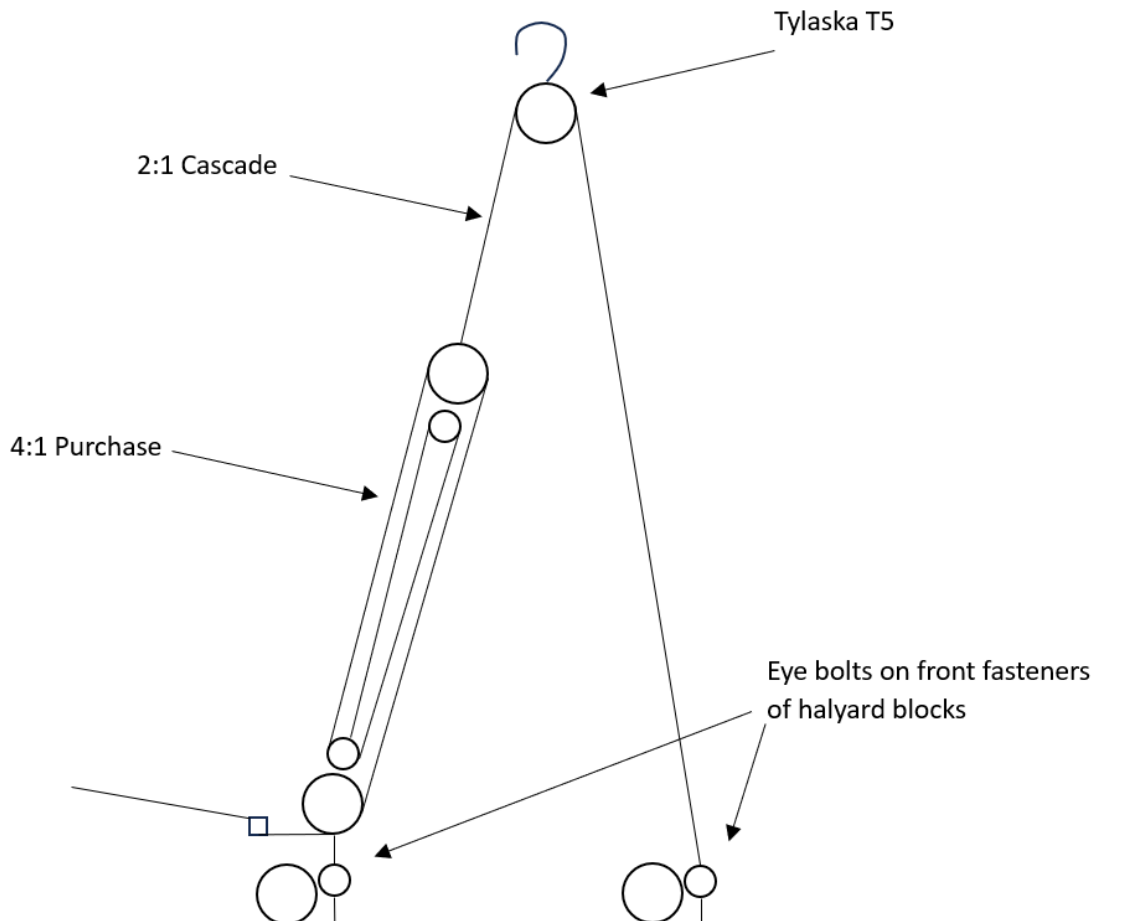
G.5.2 DIMENSIONS

- (a) Dimensions are uncontrolled except that the area shall not exceed 116.04m².
- (b) The area shall be calculated as: $((\text{leech length} + \text{luff length})/2) * ((\text{Foot length} + (4 * \text{Half width}))/5) * 0.83$.

PART III – APPENDICES

AP1 HEADSAIL HALYARD FINE TUNE

The **jib halyard** fine tune is not to exceed a purchase of 8:1 as per the below diagram (which is not to scale and is for illustration only).



AP2 CLASS LOGO

The class logo shall be of contrasting colour and identifiable when a **boat** is afloat. It shall be positioned as per the RRS.

The class logo to be placed on the **mainsail** is as per the below diagram:



The dimensions of the class logo shall be as follows

	Min (mm)	Max (mm)
Height	595	605
Width	680	690

AP3 BOW NUMBER PLACEMENT

Bow numbers shall be of a contrasting colour to the **hull** and shall be of a height of 385mm with other dimensions maintaining the required aspect ratio in font 'Exo'.

Bow numbers shall be positioned as per the below diagram.

