The ClubSwan 50 was designed in 2016 by Juan Yacht Design
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INTRODUCTION

This section forms part of the Class Rules.

ClubSwan50 is a strict ONE DESIGN class for OWNER DRIVER RACING only.

The intention is to have the “basic CS50 boat configuration” certified as OD boat for racing. This basic configuration is the highest performance option. If a CS50 has been equipped with additional standard, optional equipment packages by Nautor, those boats may obtain a specific individual rating certificate for racing under a rating rule. However, when such boats are racing in a CS50 OD Regatta event there shall be no time correction.

ClubSwan50 hulls, hull appendages and rigs are manufacturer controlled.

ClubSwan50 hulls, hull appendages and rigs shall only be manufactured by Oy Nautor Ab and its suppliers. Equipment is required to comply with the ClubSwan50 Building Specification and maybe subject to a ClubSwan50 approved manufacturing control system.

ClubSwan50 hulls, hull appendages and rigs may, after having left the manufacturer, only be altered to the extent permitted in Section C of the class rules.

Rules regulating the use of equipment during a race are contained in Section C of these class rules, in ERS Part I, the Racing Rules of Sailing and the Notice of Race and/or Sailing Instructions.

All ClubSwan50 class racing is intended to be carried out under OSR category 4 unless specifically stated as a higher category in the NOR for an event. It is only anticipated this will only apply when an event requires a higher category of OSR to apply.

PLEASE REMEMBER:

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

COMPONENTS, AND THEIR USE, ARE DEFINED BY THEIR DESCRIPTION.
PART I – ADMINISTRATION

Section A – General

A.1 LANGUAGE
A.1.1. The official language of the class is English. Except for words defined herein, the meaning of any word shall be determined by reference to the Oxford English Dictionary, Second Revised Edition (2009) – CD Rom Version 4.0 (Oxford University Press 21 May 2009) or any later published version. When there is more than one definition in the Dictionary, the CSCA shall determine the appropriate definition.

A.1.2 When a term is used in class rule or building specification defined sense, it is printed in underline italic type.

A.1.3 When a term is used in the Equipment Rules of Sailing (ERS) defined sense, it is printed in bold type.

A.1.4 When a term is used in the Racing Rules of Sailing (RRS) defined sense, it is printed in italic type.

A.1.5 The words “shall” and “must” are mandatory. The words “may” and “can” are permissive. The word “should” is advisory.

A.1.6 This class rule is a closed rule. Anything not specifically permitted by the class rules is prohibited.

A.2 ABBREVIATIONS & DEFINITIONS
A.2.1 ABBREVIATIONS
CS50 The Club Swan 50 Class of boat
50OA The Club Swan 50 Owners Association
50CA Club Swan 50 Class Authority
ERS World Sailing Equipment Rules of Sailing
NH Nautor Holding SRL
ONA Oy Nautor Ab: the builder of the Club Swan 50
OSR World Sailing Offshore Special Regulations
WS World Sailing
RRS Racing Rules of Sailing

A.2.2 DEFINITIONS
Building specification means the boat as described and detailed in associated documentation that defines the design, construction, assembly and quality control as approved by the 50CA.
Designer Juan Yacht Design as a subsidiary of JK & Co.
Quality Assurance Documents means the quality assurance documents that have been completed as required by the 50CA during the construction and assembly of that specific CS50 boat.
**CS50 sail card** means the certification confirmation sticker or similar attached to every CS50 approved sail.

*Certification condition* means the condition of the boat when first weighed and certified prior to commissioning.

*Racing Season* means the CS50 races scheduled for a given calendar year that are agreed at the previous AGM. The initial *racing season* for 2017 shall be determined by the 50CA.

**A.3 AUTHORITIES**

A.3.1 The **class rules authority** is the 50CA, which shall co-operate with NH in all matters concerning these **class rules**. The 50CA members shall be the class chief measurer, a representative of the designer and a representative of NH.

A.3.2 Only the C50CA may issue or invalidate a **certificate**.

**A.4 ADMINISTRATION OF THE CLASS**

A.4.1 NH has delegated its administrative functions of the class to the 50CA. With the agreement of NH the 50CA may delegate part or all of its functions, as stated in these **class rules**.

**A.5 QUESTIONS**

A.5.1 An owner or an owner’s representative may ask a question in writing relating to these **class rules**, the question and the answer will be posted on the ClubSwan50 official notice board. The answers will not form any part of the **class rule** and are for information purposes only, questions should be addressed to: chiefmeasurer@clubswan50.com

**A.6 CLASS RULES AMENDMENTS**

A.6.1 Amendments to these **class rules** may only be made by the 50CA, with the approval of NH. Amendments may be made at any time.

A.6.2 After 01 September 2017 the 50OA may seek an amendment by submitting a request in writing with agreement of at least 67% of the 50OA. The 50CA may seek third party opinion at its discretion to determine whether an amendment is to be made. All owners shall be given up to 14 days to make comment to the 50CA. After this time a final decision will be made by the 50CA and NH and posted on the CS50 notice board.

**A.7 CLASS RULES INTERPRETATION**

A.7.1 An owner may seek an interpretation by submitting a request in writing to the 50CA, or the 50CA may initiate an interpretation.

A.7.2 A fee may be applied by the 50CA for each individual question as agreed between the 50CA and NH.

A.7.3 An owner shall not rely on any advice or opinion from a member of the 50CA or NH, or any other party, in matters relating to the interpretation of these **class rules** other than through a written interpretation published by the 50CA.
A.7.4 The 50CA is the only body with authority to interpret the class rules. If an owner considers an interpretation may incorporate an amendment to the class rules the matter shall be referred to NH. If NH agrees that aspects of the interpretation could be considered as an amendment and gives approval, a separate amendment shall be issued. If NH does not approve any aspect that could be considered as an amendment, the matter shall be passed to a protest committee to determine whether the 50CA has changed a class rule through an interpretation. If the matter relates to ambiguous or inconsistent wording, the protest committee (see RRS 91) shall not interpret the class rules, but shall be bound by the 50CA decision.

A.8 SPARE

A.9 SAIL NUMBERS
A.9.1 RRS Appendix G1 shall be applied. In accordance with RRS G1.1(c), sail numbers shall be issued by the 50CA.
A.9.2 Sail numbers shall be issued in consecutive order starting at “001”. All boats will show a “5” preceding the boat #. For example, boat # 001 would show FIN 5001.
A.9.3 All sail numbers must be displayed as defined in Appendix E.

A.10 CERTIFICATION
A.10.1 When the 50CA concludes that the boat complies with the class rules, having carried out all necessary checks and measurement to ensure that the building specification has been met in its entirety and that all quality assurance tests and documentation has been completed, and that the final assembly has been approved, it shall issue a certificate as in Appendix F.
A.10.2 A copy of the certificate will be supplied to the boat and NH.

A.11 SPARE

A.12 INVALID CERTIFICATES
A.12.1 A certificate becomes invalid when:
(a) following an inspection the 50CA determines that a boat does not comply with the class rule, that boat’s certificate shall be made invalid,
(b) following an inspection the C50CA determines that a boat has been modified, tampered with or repaired in any way that has not been approved in writing by the 50CA for that particular boat, that boat’s certificate shall be made invalid until such time as the work can be rectified in a manner approved by the 50CA and the boat has been inspected and is class rule compliant.
(c) there is a change to any items recorded on the certificate as required under A.10,
(d) the expiry date is passed,
(e) the certificate is withdrawn by the 50CA,
(f) a new certificate is issued,
(g) there is a change of ownership.

A.13 RE-CERTIFICATION
A.13.1 The 50CA may re-issue a certificate to a previously certified boat when:
   (a) it is invalidated under A.12.1(d) or (g), after receipt of the old certificate, and any certification fee if required.
   (b) it is invalidated under A.12.1 (a), (b), (c) or (e), at its discretion.
   (c) one or more of the rules in A.12 has applied.

A.14 RETENTION OF CERTIFICATION DOCUMENTS
A.14.1 The 50CA shall retain the original documentation upon which the current certificate is based, including all quality assurance documents.
Section B – Boat Eligibility

For a boat to be eligible for OD racing, 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 at all times unless written approval is provided by the 50CA.
(b) have a valid certificate.
(c) have valid certification marks as required
(d) not be altered in any way without approval of the 50CA.

B.2 FLOTATION CHECKS / WEIGHT CHECK

B.2.1 The certificate shall carry a satisfactorily flotation check confirmation. This shall include confirmation of the heights of the measurement marks relative to the floatation waterplane in measurement condition with a water density of 1.025kg/m$^3$.

B.2.2 All boats racing in CS50 OD events shall carry out a yearly single point weight check at least 10 days prior to the first CS50 event in which they have entered that calendar year.

B.3 CLASS MARKINGS

B.3.1 Every sail shall carry a CS50 sail card attached as specified in rule C.10.

B.4 GRANDFATHERING AND ALLOWANCES FOR CRUISING OPTIONS

B.4.1 To be agreed by the 50OA and 50CA.
PART II – REQUIREMENTS AND LIMITATIONS

The crew and the boat shall comply with the rules in this Part II when racing in CS50 OD regattas. 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, II, and III shall apply.

(b) The boat shall be equipped to the Offshore Special Regulations Category 4. However, the NOR may prescribe additional requirements.

(c) Lifelines shall be of stranded stainless steel wire as specified in the building specification.

C.1.2. CS50 CLASS RACING RULES

(a) TWS limit Rule

Races of any CS50 Class events shall not start with less than 5 and more than 28 knots of true wind speed measured by the Race Committee during a 3-5 minutes period on deck level.

The decision to conduct a race lies solely with the Race Committee, and it is a skipper’s sole responsibility to decide to participate in the race.

(b) Safety / NO Collision Rule

Owners and crews, regardless the Racing Rules of Sailing in place and any other Rule mentioned in the Regatta documents, shall do anything possible to avoid yachts collisions.

In case of collisions while in open waters, free from marks, race committee and service vessels, obstacles or others racing yachts and when there is evident damage, both yachts shall retire from that race.

C.1.3. LOGISTICS

(a) Support/coach boats are not permitted during regatta events to provide assistance during a race day other than for family/spectator purposes, details shall be provided in the NOR.
C.2 CREW

C.2.1 HELMSMAN
(a) Only a person who a member of the 50OA and is the registered owner of at least 50% of the boat may helm their boat whilst racing, except;
(b) A relief helmsman, (see rules C.2.4), or;
(c) 50OA guest member who has chartered the boat for the event.

C.2.2 CREW LIMITATION
(a) The crew shall consist of no more than 4 persons either unclassified or classified as Group 3 under World Sailing Regulation 22, Sailor Classification. An additional Group 3 crew member who is an approved boat captain as per class rule C.2.3 may be part of the crew. All other crew shall hold a valid Group 1 classification. This shall be reviewed at the first AGM of the 50OA.
(b) The total weight of the crew dressed in shorts and shirt shall not exceed 980kg.
   The helmsman referred to in rules C.2.1(a) & (c) may declare a weight of 85kgs and be exempt from any crew weighing requirements.
   Crew weight will only be checked once before each event on a date specified in the NOR, but at least one day prior to the first race.
   Only the Race Committee or Protest Committee may protest crew weight after the start of the first race of an event.

C.2.3 BOAT CAPTAIN
A crew member with a Group 3 classification may apply to be deemed as the “boat captain” by the 50CA. The crew member’s primary livelihood shall be the maintenance and care of boats with specific duties assigned as part of this activity. The “Boat Captain” shall be employed on a fulltime or part-time basis by the owner of the yacht upon which crew member races. Application for boat captain status shall be received by the class manager a minimum of 28 days before a race. (Approved boat captains are listed on the class association website).

C.2.4 RELIEF HELMSMEN
(a) An owner or charterer may request permission for relief helmsmen in writing to the 50CA a minimum of 14 days before a race.
(b) A relief helmsman is defined as: A member of the crew, currently classified as World Sailing Group 1, nominated by the owner or charterer to helm the boat as permitted by Rules C.2.4. Or any family member or relative of the owner or charterer who is not classified as World Sailing Group 3 may helm the boat.
(c) Except as provided by Rules C.2.3(c) and C.2.4(e) in a race with a time limit up to 4 hours a relief helmsman shall not helm the boat:
   (i) at the start or finish of a race.
   (ii) at any mark rounding.
   (iii) for more than a total of 20 minutes.
(d) Except as provided by Rules C.2.3 (c) and C.2.4 (e) in a race with a time limit of more than 4 hours, the boat shall be helmed by her bona fide owner or 50OA guest member for the first hour of the race. Thereafter the boat may alternatively be helmed by any previously approved relief helmsmen.

(e) Notices of race may modify Rules C.2.4.

C.3 PERSONAL EQUIPMENT
Any personal equipment requirements will be defined in the NOR.

C.4 ADVERTISING
C.4.1 LIMITATIONS
Advertising shall only be displayed in accordance the WS Advertising Code. See WS Regulation 20, unless a change is permitted by written agreement with WS.

C.4.2 All CS50 logos and NH specified logos and branding will be applied as defined in these class rules and the NOR if applicable.

C.5 PORTABLE EQUIPMENT
Any portable equipment requirements will be defined in the NOR.

C.6 CS50 OD BOAT
C.6.1 MODIFICATIONS, MAINTENANCE AND REPAIR
(a) No modifications are permitted unless specified by an amendment to the class rule or with the prior approval of the 50CA.
(b) All maintenance shall be carried out in a way that the boat is retained in the original condition as when first launched, unless changes are made as a result of an amendment to the class rules.
(c) Repairs may only be carried out by parties approved by NH. If an owner considers that any repair may be necessary, they shall inform the 50CA immediately, who shall determine what action shall be taken.
(d) All components shall be retained in compliance with the building specification.
(e) In the event of the 50CA requiring confirmation of continued compliance with the building specification following a repair or work carried out, comparisons may be made to at least 3 other class compliant boats to evaluate whether continued compliance has been met at the 50CA’s discretion.

C.6.2 BOAT CONFIGURATION AND ADDITIONAL OPTIONS
The CS50 is available in two basic configurations (2 cabin or 3 cabin). Both are treated the same with regards to class controls and all measurements.
(a) Additional standard options are available as listed in Appendix G & H.
(b) Any additional options listed in Appendix G (cruising features) may be removed for the purpose of all class measurements, equipment inspection and whilst racing. If included for the purpose of Class Measurement and recorded on the Class Certificate they are not permitted to be removed or modified whilst racing. Systems and items not listed in Appendix G may not be removed or modified for Class Measurement or Racing.

(c) Any additional standard racing option listed in Appendix H (performance features) shall remain on board for the purposes of all class measurements, equipment inspection and whilst racing.

C.6.2 WEIGHT

(a) The weight of the boat in certification condition shall not be less than 7,750kg.

(b) The weight of the boat in measurement condition shall not be less than 8,150kg.

C.6.3 MEASUREMENT CONDITION

C.6.3.1 Certification Condition shall be the condition as specified in the building specification as presented in final assembly. It shall not include all of the components specified in the measurement condition.

C.6.3.2 Measurement condition shall include:

(a) the hull including all components specified in the building specification;

(b) all hull appendages including all components specified in the building specification and any hull appendage corrector weights;

(c) mast, boom and bowsprit including all components specified in the building specification and corrector weights;

(d) all running rigging as specified in Appendix D;

(f) Liquids, which shall be maintained at minimum service levels as specified in the building specification.

Measurement condition shall NOT include:

(g) crew, guests and media personnel;

(h) personal equipment;

(i) sails, including bags, battens, luff cables, furling drums and associated fittings, running rigging not specified in Appendix D:

(j) spares and tools;

(k) portable safety equipment;

(l) drinks and food;

C.6.4 CORRECTOR WEIGHTS

(a) Corrector weight containers as specified in the building specification shall be permanently fastened to the forward face of Bulkhead B and the aft face of Bulkhead F. When the weight in certification condition is less than the minimum requirement,
corrector weights shall be distributed between the corrector weight containers as determined following flotation measurement. See also B.2.

(b) The total weight of such corrector weights shall not exceed 40 kg. See also rule B.1.1.

(c) Corrector weights shall only be applied and adjusted as specified by the 50CA and once installed shall not be removed or moved unless by the 50CA, those values shall reflect those shown on the certificate. Adjustment of corrector weights shall only be made after measurement in certification condition has been repeated following a significant repair or alteration.

C.7 HULL

C.7.1 MODIFICATIONS, MAINTENANCE AND REPAIR

(a) Up to four foot chocks as specified in the building specification may be permanently fastened on the cockpit sole. The position is optional.

(b) All maintenance shall be carried out in a way that the hull is retained in the original condition as when first launched, in accordance with any instructions contained in the owner’s manual.

(c) Waxing, polishing and application of small quantities of friction-reducing compounds (for example, McLube) on the hull is permitted provided the intention and effect is to polish only.

(d) Only paint systems generically specified as two-component linear polyester saturated aliphatic polyurethane, two-component epoxy urethane, or two-component acrylic urethane may be used as the outermost surface finish of the hull. No materials other than manufacturer-supplied retardants, accelerants, thinners and pigments shall be added. Similarly, the specific gravity of the paint shall not be altered with any material other than those specified above.

(e) The application of vinyl, mylar or other plastic film over the surface of the hull for advertising or branding is permitted, provided that the film shall not be specially textured or otherwise manufactured in a way that could improve the character of the flow of water inside the boundary layer.

(f) The outermost surfaces of the hull may be sanded and cleaned provided only the surface finish is affected, and the effect of the sanding is consistent over the surface of the hull below the water plane.
(g) Repairs may only be carried out by parties authorised by NH. If an owner considers that any repair may be necessary, they shall inform the 50CA immediately, who shall determine what action shall be taken.

(h) All components shall be retained in compliance with the building specification.

C.7.2 FITTINGS

(a) USE

(1) Inspection hatch covers and drainage plugs shall be kept in place at all times.

C.8 HULL APPENDAGES

C.8.1 MODIFICATIONS, MAINTENANCE AND REPAIR

(a) No modifications are permitted unless specified by an amendment to the class rules.

(b) All maintenance shall be carried out in a way that the hull appendage is retained in the original condition as when first launched.

(c) Waxing, polishing and application of small quantities of friction-reducing compounds (for example, McLube) on the hull appendages are permitted provided the intention and effect is to polish only.

(d) Only paint systems generically specified as two-component linear polyester saturated aliphatic polyurethane, two-component epoxy urethane, or two-component acrylic urethane may be used as the outermost surface finish of the fin and bulb. No materials other than manufacturer-supplied retardants, accelerants, thinners and pigments shall be added. Similarly, the specific gravity of the paint shall not be altered with any material other than those specified above.

(e) The outermost surface finish paint system used on the rudders shall be as specified in the building specification.

(f) The outermost surfaces of the fin, bulb and rudders may be sanded and cleaned provided only the surface finish is affected, and the effect of the sanding is consistent over the surface of the appendage.
(h) Repairs may only be carried out by authorised parties. If an owner considers that any repair may be necessary, they shall inform the 50CA immediately, who shall determine what action shall be taken.

(i) All components shall be retained in compliance with the building specification.

(j) The 50CA may check measure the sectional shape and plan-form of any appendage at an event using the builders templates. Such templates shall not be available to owners for the purpose of modifications within the class tolerances.

(k) It is permitted to add a chamfer to the trailing edge of the keel fin and rudders to remove “flutter”. However the chord and plan-form shall not be reduced in size.

C.8.2 LIMITATIONS

(a) Only one fin, one bulb, and two rudders shall be used during an event except when a hull appendage has been lost or damaged beyond repair as determined by the 50CA.

C.8.3 FIN

(a) WEIGHT
The weight of the fin shall not be less than 156kgs nor greater than 160kg

(c) DIMENSIONS
(1) The fin reference mark location relative to the builder’s marks (see RuleD.2.4) shall be in compliance with the limits specified in Appendix A.

C.8.4 BULB

(a) WEIGHT
The weight of the bulb bare metal component shall not be less than 3440kg or greater than 3450kg.

(b) CORRECTOR WEIGHT
(1) When the bulb weight is less than the maximum permitted, corrector weights shall be located equally in the weight pockets.

(3) Corrector weights shall only be applied and adjusted as specified by the 50CA and shall reflect those values shown on the certificate.

C.8.5 RUDDERS

(a) USE
(1) Both port and starboard rudders shall be installed at all times whilst racing.

(2) All components of the steering system shall remain installed and fully functional at all times whilst racing.

(b) DIMENSIONS
(1) The rudder reference mark locations relative to the builder’s marks shall be in compliance with the limits specified in Appendix A.

C.9 RIG

C.9.1 MODIFICATIONS, MAINTENANCE AND REPAIR
(a) No modifications are permitted unless specified by an amendment or change to the class rules.
(b) All maintenance shall be carried out in a way that the rig is retained in the original condition as when first launched.
(c) Repairs may only be carried out by authorised parties. If an owner considers that any repair may be necessary, they shall inform the 50CA immediately, who shall determine what action shall be taken.
(d) All components shall be retained in compliance with the building specification.

C.9.2 FITTINGS
(a) USE
(1) All fittings shall remain in place as required by the class rules at all times whilst racing.
(2) Running rigging shall remain lead unless being replaced or repaired.
(3) Standing rigging shall not be adjusted whilst racing. In the period between races standing rigging may be adjusted but shall be locked prior to recommencing racing.

C.9.3 LIMITATIONS
(a) Only one set of spars and standing rigging shall be used during an event, except when an item has been lost or damaged, and the race committee and 50CA have approved the substitution.

C.9.4 MAST
(a) DIMENSIONS
(1) All dimensions shall be in compliance with the building specification.
(2) The maximum distance between the lower point and the top surface of the mast base plate shall not be greater than 1556mm when measured at the aft face. The height of the mast shims shall not exceed 52mm.

(b) WEIGHT
(1) The weight of the mast in certification condition shall not be less than 235kg (TBC)
(2) The vertical centre of gravity of the mast in measurement condition shall not be less than 11.200m (TBC) above the mast datum point.
(c) CORRECTOR WEIGHT

(1) When the mast weight is less than the minimum requirement and/or the centre of gravity is below the minimum point, corrector weights shall be added to bring the weight and centre of gravity within the limitations.

(2) The total weight of such corrector weights shall not exceed 8.0kg.

(3) Corrector weights shall only be applied and adjusted as specified by the 50CA and shall reflect those values shown on the certificate.

(d) USE

(1) The spar shall be stepped in the mast step in such a way that the heel shall not capable of moving more than 4mm in a fore and aft or transverse direction.

(2) Standing rigging tension and mast step load shall be within the manufacturer’s guidelines as defined in the owner’s manual.

(3) A luff support device other than the CS50 cruising furler option (see Appendix G) shall not be installed on the forestay.

(4) Halyards shall remain lead, and shall not be “moused out” at any time whilst racing except when being replaced or repaired.

(5) Running backstays shall remain locked in place at the spar connection at all times whilst racing, and the tails shall remain fully lead and shall not be “moused out” at any time whilst racing except when being replaced or repaired. No modification is permitted to increase the purchase from 3:1

C.9.5 BOOM

(a) DIMENSIONS

(1) All dimensions shall be in compliance with the building specification.

(2) An outer limit mark of minimum width 25mm shall be indelibly marked around the boom.

(3) The fore edge of the outer limit mark shall not be more than 7.230m from the aft face of the mast spar.

(b) WEIGHT

The weight of the boom in measurement condition shall not be less than 48 kg.

(c) USE

The boom shall remain attached to the mast spar at all times and one reef lines shall remain led at all times whilst racing.
C.9.6 BOWSPRIT
(a) DIMENSIONS
The distance from the hull at the lower point of the forestay chainplate to the forward most point on the bowsprit, excluding any sheet retainer, shall not be greater than 1.738mm (TBC)
(b) USE
The bowsprit shall remain attached to the hull at all times and all tack lines, pull backlines and associated fittings shall remain lead at all times whilst racing.

C.9.7 STANDING RIGGING
(a) DIMENSIONS
All dimensions shall be in compliance with the building specification.
(b) USE
Rigging links and rigging screws shall not be adjusted whilst racing.

C.9.8 RUNNING RIGGING
(a) USE
The following shall be led as shown in Appendix B:
(1) The mainsail sheet.
(2) The bowsprit setting and retractions lines.
Purchase systems with a cleat and a maximum purchase of 4:1 may be used. No additional attachments may be fitted than shown in Appendix B.

C.10 SAILS
C.10.1 MODIFICATIONS, MAINTENANCE AND REPAIR
(a) Sails shall not be altered in any way except as permitted by these class rules.
(b) Routine maintenance such as re-stitching damaged or worn stitching is permitted without re-measurement and re-certification.
(c) Battens may be placed in the batten pockets.

C.10.2 LIMITATIONS
(a) The CS50 sail card number shall be recorded in the official inventory for a boat and shall not be transferrable. The date of record shall be retained by the CSCA.
(b) Ten CS50 sail cards shall be issued at the start of the racing season. Additionally;
(1) when two or more CS50 events are competed in during a racing season, one additional CS50 sail card may be issued. A boat shall be issued an additional five CS50 sail cards (one mainsail, two headsails and two spinnakers) for each racing season following the boats initial launch year.
(2) Rule C.10.2(b)(1) shall be an agenda item at the 2017 AGM.
(c) The following may be onboard whilst racing:
(1) One mainsail
(2) Two full size headsails (light and medium)
(3) One mid size headsail (heavy)
(4) One heavy weather jib
(5) Three masthead spinnakers
(6) One fractional spinnaker
(7) One spinnaker staysail

The sails on board shall remain the same from the time the boat leaves the dock each day until the boat has completed racing for the day.

C.10.3 MAINSAIL

(a) IDENTIFICATION

The national letters and sail numbers shall comply with the RRS except where prescribed otherwise in these class rules and in the NOR.

(b) USE

(1) The sail shall be hoisted on a halyard, which shall remain attached to the head of the sail at all times whilst hoisted. The arrangement shall permit hoisting and lowering of the sail whilst afloat. Once hoisted the sail may be held by the halyard locking system.

(2) The sail shall be capable of being set reefed using the first reef halyard lock. The organising authority may require the mainsail to be set reefed as specified in the NOR using this arrangement for the duration of a race.

(3) The highest visible point of the sail, projected at 90° to the mast spar, shall not be set above the lower edge of the mast upper limit mark. The intersection of the leech and the top of the boom spar, each extended as necessary, shall not be behind the fore side of the boom outer limit mark.

(c) DIMENSIONS

(1) MHW (Mainsail half width) shall not be greater than 4.67m.
(2) MTW (Mainsail three-quarter width) shall not be greater than 3.12m.
(3) MUW (Mainsail upper width) shall not be greater than 2.18m.
(4) No more than 4 battens which extend from the leech to the mast via a batten car may be installed.
(5) No more than an additional 4 battens which fit within batten pockets that extend from the leech and terminal within the body of the sail and are more than 200mm in length may be installed.
(6) Additional “flutter” battens which extend from the leech and terminal within the body of the sail and are no more than 200mm in length may be installed, provided that when the sail is flattered out in the area of the sail edge, the sail edge...
the sail edge does not extend beyond the straight line.

**C.10.4 HEADSAILS (EXCLUDING HEAVY WEATHER JIB AND STAYSAIL)**

(a) **USE**

(1) The headsails may be hoisted on the headsail halyard (see Appendix D), which shall remain attached to the head of the sail at all times whilst hoisted. The luff shall be attached to the forestay using a hank system, unless the optional cruising furler is installed (see Appendix G). The arrangement shall permit hoisting and lowering of the sail whilst afloat. Once hoisted the sail may be held by the halyard locking system.

(b) **DIMENSIONS**

(1) HSA (Headsail area) shall be calculated as:

\[
HSA = 0.0625*H*U*(4*H*LP + 6*HHW + 3*HTW + 2*HUW + 0.09)
\]

(2) The maximum HSA for the full size headsails shall be 67.0m²

(3) The maximum HSA for the mid size headsails shall be 63.0m²

(4) No more than 4 battens may be installed.

**C.10.5 HEAVY WEATHER JIB**

(a) **USE**

(1) The heavy weather jib shall be hoisted on a halyard, which shall remain attached to the head of the sail at all times whilst hoisted. The arrangement shall permit hoisting and lowering of the sail whilst afloat. The heavy weather jib shall be capable of being furled.

(2) The heavy weather jib may be hoisted on its integral bolt rope.

(3) The heavy weather jib shall be capable of being hoisted and set using the inner halyard and the staysail padeye (see Appendix B, item 4).

(b) **DIMENSIONS**

(1) HSA (Headsail area) shall be calculated as:

\[
HSA = 0.0625*H*U*(4*H*LP + 6*HHW + 3*HTW + 2*HUW + 0.09)
\]

(2) The maximum HSA for the heavy weather jib shall be 53.0m²

(3) No more than 3 battens may be installed.

**C.10.6 SPINNAKER STAYSAIL**

(a) **USE**

(1) The spinnaker staysail shall be hoisted on the inner halyard, which shall remain attached to the head of the sail at all times whilst hoisted. The arrangement shall permit hoisting and
lowering of the sail whilst afloat. The spinnaker staysail shall be capable of being furled.

(2) The spinnaker staysail shall be hoisted on its integral bolt rope.

(3) The spinnaker staysail shall be attached at the deck to the staysail padeye (see Appendix B, item 4).

(b) DIMENSIONS
(1) HSA (Headsail area) shall be calculated as:
\[
HSA = 0.0625*H_LU^*(4*HLP + 6*HHW + 3*HTW + 2*HUW + 0.09)
\]
(2) The maximum HSA for the spinnaker staysail shall be 56.0m²
(3) No more than 3 battens may be installed.

C.10.7 MASTHEAD SPINNAKERS

(a) IDENTIFICATION
The sail numbers shall comply with the RRS except where prescribed otherwise in these class rules and the NOR.

(b) USE
(1) The sail shall be hoisted on a masthead halyard (see Appendix D), which shall remain attached to the head of the sail at all times whilst hoisted. Once hoisted the sail may be held by the halyard locking system.
(2) The sail may not be furled or reefed.

(c) DIMENSIONS
(1) SPA (spinnaker area) shall be calculated as:
\[
SPA = ((SLU + SLE)/2) * (SFL + (4*SHW)/5) * 0.83
\]
(2) The maximum SPA shall be 235.0m²
(3) No battens may be installed.
(4) SHW shall not be less than 75% of SFL.

(d) MATERIALS
(1) A minimum cloth weight of 36gsm shall apply for any part of the body of the sail.
(2) The body of the sail (see ERS G.1.4(a)) shall be constructed using woven cloth only.

C.10.8 FRACTIONAL SPINNAKER

(a) IDENTIFICATION
The sail numbers shall comply with the RRS except where prescribed otherwise in these class rules and the NOR.

(b) USE
(1) The sail shall be hoisted on a fractional hoist halyard (see Appendix D), which shall remain attached to the head of the sail at all times whilst hoisted. Once hoisted the sail may be held by the halyard locking system.
(2) The **sail** may be furled.

(c) **DIMENSIONS**

(1) SPA (spinnaker area) shall be calculated as:

\[ SPA = \frac{(SLU + SLE)}{2} \times (SFL + \frac{4 \times SHW}{5}) \times 0.83 \]

(2) The maximum SPA shall be 150.0m²

(3) No battens may be installed.

(4) SHW shall not be less than 75% of SFL.
Section D – Hull

D.1 PARTS

D.1.1 MANDATORY
All items listed in measurement condition.

D.2 GENERAL

D.2.1 RULES
The hull shall comply with the class rules in force as specified in the NOR.

D.2.2 CERTIFICATION

D.2.3 MODIFICATIONS, MAINTENANCE AND REPAIR
See Rule C.7.

D.2.4 DEFINITIONS
(a) HULL DATUM POINT
The hull datum point is 150mm above the intersection of the waterplane with the hull on centre line at the transom in measurement condition.

(b) FORWARD HULL BUILDERS MARKS
Reference marks established on the hull surface on each side 150mm above the designed waterplane in measurement condition and 14.335m forward of hull datum point.

(c) MIDSHIP HULL BUILDERS MARKS
Reference marks established on the hull surface on each side 150mm above the designed waterplane in measurement condition and 8.335m forwards of the hull datum point.

(d) MIDSHIP DECK BUILDERS MARKS
Reference marks established on the hull surface on each side 1.415m above the designed waterplane in measurement condition and 8.335m forwards of the hull datum point.

D.2.5 IDENTIFICATION
(a) The hull shall carry a CS50 Class Plaque permanently placed on the starboard side of the transom.

D.2.6 BUILDERS
(a) The hull shall built by ONA.
(b) All moulds shall be approved by 50CA.

D.3 HULL SHELL
The hull shell shall be built in accordance with the building specification.
D.4 DECK
The deck shall be built in accordance with the *building specification*.

D.5 BULKHEADS AND INTERNAL STRUCTURE
The bulkheads and internal structure be built in accordance with the *building specification*.

D.6 ASSEMBLED HULL
The assembled hull shall include all components shown and listed in *measurement condition*. No additional components shall be included.

D.6.1 DIMENSIONS AND WEIGHT
All dimensions shall be in compliance with the *building specification* and shall be confirmed during construction by the 50CA to meet the requirements of the quality assurance documents.
Section E – Hull Appendages

E.1 PARTS
All items shown in Appendix A.

E.2 GENERAL

E.2.1 RULES
Hull appendages shall comply with the class rules in force as specified in the NOR.

E.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR
See Rule C.8.

E.2.3 CERTIFICATION

E.2.4 MANUFACTURERS
(a) The hull appendages shall be made by ONA or NH approved builders.
(b) All moulds shall be approved by 50CA.

E.2.5 MATERIALS AND CONSTRUCTION
The hull appendages shall be manufactured in accordance with the building specification.

E.2.6 FITTINGS
All fittings shall be installed as specified in the builders specification and owner’s manual.

E.2.7 DIMENSIONS AND WEIGHT
As specified in Rules C.8.3, C.8.4 and Appendix A and the building specification.
Builder templates shall be used by the 50CA to confirm continued compliance with the build tolerances at any time. Builder templates shall not be available to owners for the purpose of optimising the sectional shape or plan-form of any appendage and shall only be used with the written permission of the 50CA.
Section F – Rig

F.1 PARTS
All items shown in Appendix D.

F.2 GENERAL
F.2.1 RULES
(a) The spars and their fittings shall comply with the class rules in force as specified in the NOR.
(b) The standing and running rigging shall comply with the class rules.

F.2.2 MODIFICATIONS, MAINTENANCE AND REPAIR
See Rule C.9.

F.2.3 CERTIFICATION
(a) The 50CA shall certify spars and shall sign and date the certification mark.
(b) The 50CA shall certify standing rigging.
(c) The 50CA may appoint one or more In-House Official Measurers to measure and certify standing rigging produced by that manufacturer.

F.2.4 DEFINITIONS
(a) MAST DATUM POINT
The mast datum point is the builders reference mark at the mast heel.

F.2.5 MANUFACTURER
(a) The spars shall be manufactured by Southern Spars.

F.2.6 MATERIALS AND CONSTRUCTION
The spars shall be manufactured in accordance with the building specification.

F.2.7 FITTINGS
All fittings as shown in Appendix D shall be installed as specified in the building specification and owner’s manual.
(a) The mast step position shall be as specified in the building specification and the position shall not be modified.

F.2.8 DIMENSIONS AND WEIGHT
As specified in Rule C.9 and the building specification.

F.3 STANDING RIGGING
F.3.1 MANUFACTURER
(a) The standing rigging shall be manufactured by Southern Spars.
F.3.2 MATERIALS AND CONSTRUCTION
All standing rigging shall be manufactured in accordance with the building specification.

F.3.3 FITTINGS
All fittings shall be installed as specified in the building specification.

F.3.4 DIMENSIONS AND WEIGHT
As specified in the building specification.

F.4 RUNNING RIGGING
F.4.1 MANUFACTURER
(a) The running rigging may be manufactured by any supplier.

F.4.2 FITTINGS
All fittings as specified in Appendix B & D shall be installed.
Section G – Sails

G.1 GENERAL

G.1.1 RULES
(a) Sails shall comply with the class rules in force as specified in the NOR.

G.1.2 CERTIFICATION
(a) The CSCA shall certify mainsails in the tack and all other sails in the clew and shall sign and date the certification mark.
(b) The CSCA may appoint one or more In-House Official Measurers to measure and certify sails produced by that manufacturer.

G.1.3 SAILMAKER
(a) Sails may be manufactured by any supplier.

G.1.4 IDENTIFICATION
(a) The class insignia shall conform with the requirements as detailed in the diagram in Appendix E.
(b) Sail numbers shall comply with rule A.9.

G.1.5 MATERIALS AND CONSTRUCTION
There are no limitations on the materials or construction methods of the sails except as stated in Rule C.10.7.

G.1.6 DIMENSIONS
As specified in the C.10.
PART III – APPENDICES

The rules in Part III are closed class rules. Measurement shall be carried out in accordance with the ERS except where varied in this Part.

APPENDIX A – HULL APPENDAGE MEASUREMENT
APPENDIX B – DECK LAYOUT
APPENDIX C – SYSTEMS LAYOUT
APPENDIX D – RIG GEOMETRY & RUNNING RIGGING
APPENDIX E – SAIL INSIGNIA & NUMBERS
APPENDIX F – CLASS CERTIFICATE
APPENDIX G – STANDARD OPTIONAL CRUISING FEATURES
APPENDIX H – STANDARD OPTIONAL RACING FEATURES

Please note that the appendices are currently being finalised and will be updated as soon as possible.
APPENDIX A – HULL APPENDAGE MEASUREMENT
APPENDIX A – HULL APPENDAGE MEASUREMENT

Build Tolerances

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Minimum(mm)</th>
<th>Maximum(mm)</th>
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<td>K2</td>
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<tr>
<td>Kport</td>
<td>3605</td>
<td>3612</td>
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<tr>
<td>Kstbd</td>
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<td>3612</td>
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<tr>
<td>R1</td>
<td>2865</td>
<td>2880</td>
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<tr>
<td>R2</td>
<td>8290</td>
<td>8320</td>
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Measured Kport shall not be more than 2mm greater or less than Kstbd.
APPENDIX B – DECK LAYOUT
<table>
<thead>
<tr>
<th>Item</th>
<th>Supplier</th>
<th>Description</th>
<th>Part Number</th>
<th>QTY</th>
<th>ITEM- OR DRAWING NUMBER</th>
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<tbody>
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<td>1</td>
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<td>RC 280 B - Black anodized</td>
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<td>2</td>
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<td>Wichard</td>
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<td>6</td>
<td>Ronstan</td>
<td>Constrictor for 10 mm tack line, optional on port</td>
<td>CT 310 P001</td>
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<td>62304</td>
<td>STD/OPT</td>
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<td>12M</td>
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<td>39</td>
<td>Lewmar</td>
<td>Hatch for owner cabin SZ 60 - 180 opening 399601999</td>
<td>1</td>
<td>62379</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40</td>
<td>Lewmar</td>
<td>Hatch for spinnaker drop in corridor SZ 60 - 180 opening 399601999</td>
<td>1</td>
<td>62379</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Lewmar</td>
<td>Portlight Size 3 393320200 (+1)</td>
<td>1 (+1)</td>
<td>63008 STD/OPT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>Spinlock</td>
<td>Jammer - for halyards SPXX0812</td>
<td>6</td>
<td>23060</td>
<td></td>
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</tr>
<tr>
<td>45</td>
<td>Antal</td>
<td>Fairlead single hole diam 20 mm R20.20</td>
<td>2</td>
<td>62034</td>
<td></td>
<td></td>
</tr>
<tr>
<td>46</td>
<td>Harken</td>
<td>Winch handles B10ASG</td>
<td>6</td>
<td>92561</td>
<td></td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>Antal</td>
<td>Jib sheet up/down - Block double sheaves dia.42mm twisted CUS0001</td>
<td>2</td>
<td>62176</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>Antal</td>
<td>Purchase for inhauler /up-down - Block HL web dia.40mm</td>
<td>H140</td>
<td>1</td>
<td>62178</td>
<td></td>
</tr>
<tr>
<td>48A</td>
<td>Antal</td>
<td>Purchase for inhauler/up-down - OPF double bloc 504</td>
<td></td>
<td>2</td>
<td>62180</td>
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</tr>
<tr>
<td>48B</td>
<td>Antal</td>
<td>Purchase for inhauler /up-down - OPF double block dia. 50mm</td>
<td>503</td>
<td>2</td>
<td>62180</td>
<td></td>
</tr>
<tr>
<td>48C</td>
<td>Antal</td>
<td>Purchase for inhauler /up-down - Ring&amp;Loop (R20.14+dyneema 6mm)</td>
<td>RL6.1</td>
<td>2</td>
<td>62179</td>
<td></td>
</tr>
<tr>
<td>49</td>
<td></td>
<td>Padeyes for easy sailing jib sheet lead and tweakers</td>
<td>Wichard 6605</td>
<td>2</td>
<td>28079</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td>Antal</td>
<td>Backstay attachment on deck</td>
<td>7614</td>
<td>2</td>
<td>62496</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>Antal</td>
<td>Deck multiring organizer for halyards; 5 passages</td>
<td>R5.14</td>
<td>2</td>
<td>62497</td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>Wichard</td>
<td>Padeye for purchase dead end ( in houler or up-down )</td>
<td>6604</td>
<td>2</td>
<td>28078</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>Antal</td>
<td>Swivelling cleat for inhauler/up-down purchase</td>
<td></td>
<td>2</td>
<td>62498</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Option of 2 Positions</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>Harken</td>
<td>Pro-trim traveller system</td>
<td>C12328, C12329</td>
<td>1</td>
<td>63875</td>
<td></td>
</tr>
<tr>
<td>55A</td>
<td>Antal</td>
<td>Traveller deflector block</td>
<td>501</td>
<td>2</td>
<td>63420</td>
<td></td>
</tr>
<tr>
<td>55B</td>
<td>Wichard</td>
<td>Shackle for deflector block</td>
<td></td>
<td>2</td>
<td>11826</td>
<td></td>
</tr>
<tr>
<td>55C</td>
<td>Antal</td>
<td>Ring for traveller line tensioning</td>
<td></td>
<td>2</td>
<td>63877</td>
<td></td>
</tr>
<tr>
<td>55D</td>
<td>Antal</td>
<td>Traveller through deck block</td>
<td>818</td>
<td>2</td>
<td>63878</td>
<td></td>
</tr>
<tr>
<td>55E</td>
<td>Antal</td>
<td>Camcleat</td>
<td>502.022</td>
<td>2</td>
<td>63004</td>
<td></td>
</tr>
<tr>
<td>56</td>
<td>Antal</td>
<td>Double line deck ring</td>
<td>R.18.36</td>
<td>2</td>
<td>62493</td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>Wibo</td>
<td>Single fairlead, Aisi 316</td>
<td></td>
<td>1</td>
<td>209200</td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>Antal</td>
<td>Cunningham clutch - Cam 611 Silver</td>
<td>543.11</td>
<td>1</td>
<td>63419</td>
<td></td>
</tr>
<tr>
<td>59</td>
<td>Wichard</td>
<td>For tension of constrictors</td>
<td>6604</td>
<td>5</td>
<td>28078</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STD/OPT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>61</td>
<td>Wibo</td>
<td>Shroud chainplate + backing plates port/stb</td>
<td>1+1</td>
<td></td>
<td>209752 + 209753</td>
<td></td>
</tr>
<tr>
<td>62</td>
<td></td>
<td>Bobstay, Dyneem DSK 99 + thimble eye</td>
<td></td>
<td>1</td>
<td>63880 + 63876</td>
<td></td>
</tr>
<tr>
<td>63</td>
<td>Wibo</td>
<td>Bobstay fitting</td>
<td></td>
<td>1</td>
<td>209081</td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>Wibo</td>
<td>Deflector bracket</td>
<td></td>
<td>1</td>
<td>209742</td>
<td></td>
</tr>
<tr>
<td>65</td>
<td>Wichard</td>
<td>Padeye for Code 0 Barberhauler</td>
<td></td>
<td>2</td>
<td>28079</td>
<td></td>
</tr>
<tr>
<td>66</td>
<td>Wibo</td>
<td>Backstay runner fairlead</td>
<td></td>
<td>2</td>
<td>208956</td>
<td></td>
</tr>
<tr>
<td>67</td>
<td></td>
<td>Traveller line / turning block</td>
<td></td>
<td>2</td>
<td>OPT</td>
<td></td>
</tr>
</tbody>
</table>

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APPENDIX D – RIG GEOMETRY
APPENDIX D – RUNNING RIGGING

The following Running Rigging shall be included in the measurement condition

<table>
<thead>
<tr>
<th>Item</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Halyard</td>
<td>1</td>
</tr>
<tr>
<td>Masthead Spinnaker Halyard</td>
<td>2</td>
</tr>
<tr>
<td>Fractional Hoist Halyard</td>
<td>1</td>
</tr>
<tr>
<td>Jib Hoist Halyard</td>
<td>1</td>
</tr>
<tr>
<td>Staysail Halyard</td>
<td>1</td>
</tr>
<tr>
<td>Staysail Halyard Tail</td>
<td>1</td>
</tr>
<tr>
<td>Deflector Control Line</td>
<td>1</td>
</tr>
<tr>
<td>Halyard Trip Lines</td>
<td></td>
</tr>
<tr>
<td>Gennaker Tack (Second Optional)</td>
<td>1</td>
</tr>
<tr>
<td>Main Sheet</td>
<td>1</td>
</tr>
<tr>
<td>Reef Line</td>
<td>1</td>
</tr>
<tr>
<td>Runner Tail</td>
<td>2</td>
</tr>
<tr>
<td>Jib Tack Strop</td>
<td>1</td>
</tr>
<tr>
<td>Jib Car Control Lines</td>
<td></td>
</tr>
<tr>
<td>Cunningham Lines</td>
<td></td>
</tr>
<tr>
<td>Mainsheet Travellers Control Lines</td>
<td></td>
</tr>
</tbody>
</table>
APPENDIX E – SAIL INSIGNIA & NUMBERS

E.1 IDENTIFICATION IN MAINSAIL

E. 1.1 CLASS INSIGNIA

(a) CS50 class logo on insignia cloth:

![CS50 class logo](image)

The graphic design file is available on the class noticeboard.

(b) DIMENSIONS in mainsail shall be 0.71m x 2.30m

(c) POSITION in mainsail shall be on Starboard side above MTW and on Port side below MTW. Insignia logo shall not interfere with ¾ draft stripes and should be positioned equidistant from any ¾ draft stripe.

MTW leech point is the reference point for closest point of Insignia logo to leech:
- 0.40m to leech
- 0.20m above/below reference point (starboard and port side)
- class insignia of both sides are 0.40m separated

E.1.2. SAIL NUMBERS

(a) DIMENSIONS according to RRS G.1.2 (b)

(b) COLOUR of sail numbers on mainsail shall be one of CS50 class insignia C.I. colours, i.e. red, blue or white.

(c) POSITION of sail numbers on mainsail shall be on starboard side above MHW / mid draft stripe and on port side below MHW / mid draft stripe. Sail numbers shall not interfere with draft stripes.

MHW leech point is reference point for closest point of sail number to leech:
- 0.40m to leech
- 0.20m above / below reference point
E.1.3. DRAWING
## One Design Measurement Certificate

**CS50-500**

### Yacht's Name

0

### National Letters and Sail Number

0

### Hull Number

CS50-05

### Owner(s)

0

<table>
<thead>
<tr>
<th>Part numbers</th>
<th>Mast</th>
<th>Boom</th>
<th>Bowsprit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keel Fin</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Keel Elbow</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rudder #1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Rudder #2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### Hull corrector weights

| Forward | 0.00 kg | 0 | 0 |
| Alt     | 0.00 kg | 0 | 0 |

### Appendage weights

| Keel Fin         | 0.0 kg   | 0 | 0 |
| Keel corrected weight | 0.0 kg   | 0 | 0 |
| Keel corrected seal | 0.0 kg   | 0 | 0 |
| Rudder #1        | 0.0 kg   | 0 | 0 |
| Rudder #2        | 0.0 kg   | 0 | 0 |

### Mast corrector weights

| Bulb | 0.0 kg | 0.0 kg |
| Lower spreaders (combined) | 0.0 kg | 0.0 kg |
| Upper spreaders (combined) | 0.0 kg | 0.0 kg |
| Mast VCG (inc correctors)  | 0.000 m | 0.000 m |
| Mast weight (inc correctors) | 0.0 kg | 0.0 kg |

### Spar weights

| Boom (inc corrector) | 0.0 kg |
| Bowsprit weight      | 0.0 kg |

### Options

| | | |
| | | |

### Headsail areas

| MUW | 0.00 m | Full size #1 | 0.0 m² |
| MTW | 0.00 m | Full size #2 | 0.0 m² |
| MW | 0.00 m | Mid size | 0.0 m² |
| Spinnaker area | 0.0 m² | HWJ | 0.0 m² |
| SPA #1 | 0.0 m² | Stay | 0.0 m² |
| SPA #2 | 0.0 m² | | |
| FRP | 0.0 m² | | |
| SHW | 0.00 m | | |
| SFL | 0.00 m | | |
| Ratio | | | |

### VALIDATION

This yacht has been manufactured by Oy Nautor Ab in accordance with the ClubSwan50 Class Rule and has been found by the CSIA to be in compliance with the Rule.

**Date of certification**

15/12/2016

**Supersedes Certificate No and Date**

Original Certificate

---

**Class Chief Measurer**
APPENDIX G – STANDARD OPTIONAL CRUISING FEATURES

The following optional items shall be removed for the purposes of all class measurements however may remain whilst racing.

<table>
<thead>
<tr>
<th>STANDAR DONAL CRUISING FEATURES</th>
<th>Description</th>
<th>Weight (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8020211</td>
<td>Cruising Box Wing Boom</td>
<td></td>
</tr>
<tr>
<td>1100084</td>
<td>Large steering pedestal tops for instruments instead of standard</td>
<td>8</td>
</tr>
<tr>
<td>2030135</td>
<td>Teak on cockpit sole</td>
<td>30</td>
</tr>
<tr>
<td>2050015</td>
<td>Anchor Windlass</td>
<td></td>
</tr>
<tr>
<td>2050016</td>
<td>Bow Roller &amp; Anchor Handling System</td>
<td></td>
</tr>
<tr>
<td>2070620</td>
<td>Helmsman steering platform</td>
<td>5</td>
</tr>
<tr>
<td>2070627</td>
<td>Folding mooring cleats at stern, 2 pcs</td>
<td>3</td>
</tr>
<tr>
<td>3020398</td>
<td>Blackout and Mosquito Screen for Owner’s Cabin Hatch</td>
<td>3</td>
</tr>
<tr>
<td>5010216</td>
<td>Deck Shower at Stern</td>
<td>3</td>
</tr>
<tr>
<td>5010230</td>
<td>Watermaker Schenker Smart 80 Analogic</td>
<td>45</td>
</tr>
<tr>
<td>5010233</td>
<td>Hot water system, Quick 40 l waterheater</td>
<td>12</td>
</tr>
<tr>
<td>5020035</td>
<td>Sea water flush in addition to fresh water flush</td>
<td>10.0</td>
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<tr>
<td>5070143</td>
<td>Air Conditioning System</td>
<td>155</td>
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<tr>
<td>5080043</td>
<td>Webasto Air Top EVO 40 Genset for heater</td>
<td>35</td>
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<tr>
<td>6010296</td>
<td>Generator Fischer Panda 8 kW 1000iPMS</td>
<td>170</td>
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<tr>
<td>6040115</td>
<td>Upgrade of service battery capacity by one 12V 100Ah/3h battery</td>
<td>24</td>
</tr>
<tr>
<td>6100306</td>
<td>Microwave Oven</td>
<td></td>
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<tr>
<td>7050726</td>
<td>Entertainment Package</td>
<td></td>
</tr>
<tr>
<td>7060446</td>
<td>Autopilot System</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>Bunks (Additional Bunks for use at Sea)</td>
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<tr>
<td></td>
<td>Spreader Lights</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stove (2 Burner)</td>
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</tr>
</tbody>
</table>

The following optional items shall be removed for the purposes of all class measurements however may remain whilst racing.

<table>
<thead>
<tr>
<th>STANDARD OPTIONAL REMOVABLE CRUISING FEATURES</th>
<th>Description</th>
<th>Weight (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item Code</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2100117</td>
<td>Cockpit Table with Folding Leaves</td>
<td></td>
</tr>
<tr>
<td>2110581</td>
<td>Removable sprayhood/dodger for main entrance</td>
<td></td>
</tr>
<tr>
<td>3000948</td>
<td>Blinds and Curtains for Hatches &amp; Windows OK</td>
<td>10</td>
</tr>
<tr>
<td>3000948</td>
<td>Blinds and Curtains for Hatches &amp; Windows</td>
<td>10</td>
</tr>
<tr>
<td>3020398</td>
<td>Blackout and Mosquito Screen for Owner’s Cabin Hatch</td>
<td>3</td>
</tr>
<tr>
<td>7030643</td>
<td>Radar on Transom Post</td>
<td></td>
</tr>
<tr>
<td>8030202</td>
<td>Jib Furling System with PBO headstay including swivel and drum</td>
<td></td>
</tr>
<tr>
<td>2050016</td>
<td>Bow Roller &amp; Anchor Handling System</td>
<td></td>
</tr>
<tr>
<td>8030202</td>
<td>Jib Furling System with PBO headstay including swivel &amp; Drum</td>
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</tr>
<tr>
<td></td>
<td>Saloon &amp; Bunk Cushions</td>
<td></td>
</tr>
</tbody>
</table>
Gas Bottle
Forward & Aft Cabin Doors (Toilet & Bathroom Doors are Not Removable)

APPENDIX H – STANDARD OPTIONAL RACING FEATURES

<table>
<thead>
<tr>
<th>Item Code</th>
<th>Description</th>
<th>Weight (KG)</th>
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<tbody>
<tr>
<td>2040736</td>
<td>Electric Winches</td>
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</tr>
<tr>
<td>2060542</td>
<td>Second tack line</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Navigation Instruments</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Racing Instruments package</td>
<td></td>
</tr>
<tr>
<td>7020851</td>
<td>Forestay load pin including 2 pcs B&amp;G 10/10 HV displays in cockpit</td>
<td></td>
</tr>
<tr>
<td>7020851</td>
<td>Upgrade of B&amp;G H5000 CPU software from Hydra to Hercules. Including B&amp;G H5000 3D motions sensor, 1 pcs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cockpit Rope Bags</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Halyard Lock Trip Line Cleats</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cockpit Floor Covering (Excluding Teak)</td>
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</tr>
<tr>
<td></td>
<td>Endoscope – Through Hull Fitting – Position As Defined by Nautor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Optional Deck Fittings 03, 06, 41, 59, 65, 66 &amp; 67 – Set Position by Nautor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Liferaft securing points</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Grinder Pedestal System (To Be Developed)</td>
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</tr>
</tbody>
</table>