The Nacra 17 was designed in 2012 by Morelli & Melvin and Nacra and was adopted as a World Sailing class in 2013.
INDEX

PART I – ADMINISTRATION
Section A – General
A.1 Language ................................... 4
A.2 Abbreviations ............................... 4
A.3 Authorities ................................. 5
A.4 Administration of the Class ........... 5
A.5 Class rules changes ..................... 5
A.6 Class Rules Amendments .......... 5
A.7 Class Rules Interpretation .... 5
A.8 International Class Fee and ISAF Building Plaque .... 5
Section B – Boat Eligibility
B.1 Class Rules and Certification ... 6
B.2 Event Inspection ......................... 6
B.3 Event Limitation Marks .......... 6

PART II – REQUIREMENTS AND LIMITATIONS
Section C – Conditions for Racing
C.1 General ..................................... 7
C.2 Crew ......................................... 8
C.3 Personal Equipment ................... 8
C.4 Advertising ............................... 8
C.5 Portable Equipment ................... 8
C.6 Boat .......................................... 9
C.7 Hull ......................................... 10
C.8 Hull Appendages ....................... 11
C.9 Assembled Platform ................. 12
C.10 Rig .......................................... 14
C.11 Sails ...................................... 16
Section D – Platform
D.1 Parts ...................................... 18
D.2 Modifications, Maintenance and repair ................. 18
D.3 Manufacturers ......................... 19
D.4 Identification ............................ 19
D.5 Materials, construction and dimension .................. 19
Section E – Hull Appendages
E.1 Parts ..................................... 19

E.2 Manufacturers ......................... 19
E.3 Identification ............................ 19
E.4 Materials, construction and dimension .................. 20
Section F – Rig
F.1 Parts ...................................... 20
F.2 Manufacturers ......................... 20
F.3 Identification ............................ 20
F.4 Materials, construction and dimension .................. 20
Section G – Sails
G.1 Parts ...................................... 20
G.2 Manufacturers ......................... 20
G.3 Identification ............................ 20
G.4 Materials, construction and dimension .................. 20

PART III – APPENDICES
H Manufactured Part List .......... 21
I Rigging List .................................. 22
J Hull Drawings ......................... 24
K Nacra 17 Sail Arrangement ...... 25
INTRODUCTION

This introduction only provides an informal background and the International Nacra 17 Class Rules proper begin on the next page.

Nacra 17 hulls, hull appendages, cross beams, trampoline, rigging and sails are manufacturing controlled.

Nacra 17 hulls, hull appendages, cross beams, trampoline, rigging and sails shall only be manufactured by Nautical Sports BV— in the class rules referred to as ‘Nacra licensed suppliers’. Equipment is required to comply with the International Nacra 17 Building Specification and is subject to a World Sailing approved manufacturing control system.

Nacra 17 hulls, hull appendages, cross beams, trampoline, rigging and sails may, after having left the manufacturer, only be altered to the extent permitted in Section C of the class rules.

Owners and crews should be aware that compliance with rules in Section C is the responsibility of the competitor, as this is NOT checked as part of the in house certification process.

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

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 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 printed in “bold” the definition in the ERS applies and when a term is printed in “italics” the definition in the RRS applies.
A.1.4 The following definitions apply:
   BONDING
   To fix in place with glues, resins, sealants or other similar chemical agents.
   COATING
   Application of an additional permanent layer or layers of a substance to a surface. This may require prior preparation of the surface which may involve sanding, etching, blasting, but not fairing.
   SANDING
   Removal of the outermost surface through use of an abrasive material with or without a lubricating agent, which does not alter the shape but may remove localised irregularities or textures in the surface. It may include polishing through the use of a cutting compound.
   CLEANING
   The application and subsequent removal of detergents or similar agents, the purpose of which is to remove residue on the surface.
   FAIRING
   The addition and/or removal of material to alter the shape.
   LUBRICATING
   The application of non-permanent friction reducing compound.
   MODIFICATION
   Work resulting in a change to the original condition.
   MAINTENANCE
   Work required to retain the original condition, compensating for normal wear and tear in order to achieve its maximum useful life. This includes preventive maintenance and may include coating, sanding, lubricating and cleaning, but shall exclude fairing and bonding.
   REPAIR
   Corrective action, following unintended damage, required to restore the original condition. This may include coating, sanding, fairing and bonding.

A.2 ABBREVIATIONS
A.2.1 ISAF International Sailing Federation (renamed World Sailing)
MNA World Sailing Member National Authority
NS Nautical Sports bv
also referred in the rules as NACRA the copyright holder.
IN17CA International Nacra 17 Class Association
NNCA National Nacra Class Association
ERS Equipment Rules of Sailing
RRS Racing Rules of Sailing
IM International Measurer

A.3 AUTHORITIES
A.3.1 The international authority of the class is World Sailing which shall co-operate with the IN17CA in all matters concerning these Class Rules.
A.3.2 Notwithstanding anything contained herein, the certification authority has the authority to withdraw a certificate and shall do so on the request of World Sailing.

A.4 ADMINISTRATION OF THE CLASS
A.4.1 World Sailing has delegated its administrative functions of the class to the IN17CA.

A.5 CLASS RULES CHANGES
A.5.1 World Sailing Regulation 10.11 applies.

A.6 CLASS RULES AMENDMENTS
A.6.1 In accordance with World Sailing Regulations, amendments to the Class Rules require the approval of World Sailing after their adoption by a simple majority vote of the members in a general meeting of the IN17CA held in accordance with its constitution.

A.7 CLASS RULES INTERPRETATION
A.7.1 Interpretation of Class Rules shall be made in accordance with World Sailing Regulations in consultation with the IN17CA and NS.
A.7.2 Interpretation of Class Rules at an event shall be carried out in accordance with the RRS. The event organising authority shall inform World Sailing and IN17CA of any such interpretations.

A.8 INTERNATIONAL CLASS FEE AND BUILDING PLAQUE
A.8.1 The licensed manufacturer shall pay the International Class Fee.
A.8.2 World Sailing shall, after having received the International Class Fee for the hull, send the World Sailing Building Plaque to the licensed manufacturer.
Section B – Boat Eligibility

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

B.1 CLASS RULES AND CERTIFICATION
B.1.1 The Boat shall:
   (a) have a World Sailing Building Plaque
   (b) have been manufactured by Nacra Sports BV or an approved licensed manufacturer.
   (c) be in compliance with the Class Rules.

B.2 EVENT INSPECTION
B.2.1 The role of Equipment Inspectors at an event is to verify that equipment has been produced by a Licensed Manufacturer and has not been subsequently altered (other than as is permitted within these rules) using whatever inspection methods they deem appropriate, including comparison with a reference sample of the type of equipment presented for inspection. Should this comparison reveal deviation greater than the Equipment Inspector considers being within manufacturing tolerances, the matter shall be reported to the Race Committee or Event Technical Committee.
   Such occurrences shall be reported to World Sailing and the IN17CA Technical Committee for investigation and a ruling on the eligibility of the equipment for racing.

B.3 EVENT LIMITATION MARKS
B.3.1 If an event uses event limitation marks these marks shall not be removed during the event. If the event limitation mark becomes damaged or lost this shall be reported to the Race Committee as soon as possible.
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 Class Rules in Part II are closed class rules, where anything that is not specifically allowed in Class Rules is prohibited.

Equipment 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) RRS 49.1 is amended such that both members of the crew may use a trapeze. Add to RRS 49.1; both crew must maintain contact between the boat and their body when using their trapezes.

(b) RRS 42.3 is amended by adding the following:

j) Except on a beat to windward, when foiling is possible (sailing with the hull clear of the water for more than one boat length due to the effect of the hydrofoils), the boat’s crew may pump the sails an unlimited number of times in order to initiate foiling.

C.1.2 LIMITATIONS

(a) Where replacement equipment other than from Nacra licensed suppliers is permitted by this rules, it may be obtained from any supplier provided that the replacement is of a similar weight, size and type, performs the same function within the tolerances set by Appendix section H and I. Replacement fittings shall be fitted in the same position as the original fitting.

(b) A team racing a boat with original World Sailing/ISAF plaque number lower than (Older than) 336 shall not be allowed to compete at Olympic games or in a Gold Fleet at a Class World Championship, excluding Junior World Championships.

Any team qualifying for gold fleet at a Class World Championship in one of these boats will be assigned to the silver fleet and scored as a silver fleet competitor.

(c) After Equipment Inspection at an event, Modifications permitted in these rules require the approval of the Event Technical Committee.
C.2 CREW
C.2.1 LIMITATIONS
The crew shall consist of one female person and one male person during World Championships, Continental Championships, World Cup Series and other World Sailing grade 1 and 2 events.

C.2.2 MEMBERSHIP
During World Championships, Continental Championships, World Cup Series and other World Sailing grade 1 and 2 events each crew member shall be a current member of the IN17CA.

C.3 PERSONAL EQUIPMENT
MANDATORY
(a) When racing each crew member shall wear a personal flotation device to the minimum standard ISO 12402-5 (Level 50), or USCG Type III, or AUS PFD 2, or EN 393 or equivalent. Inflatable buoyancy vests are not permitted.

(b) Each crew member shall wear a helmet that shall be to the minimum standard EN1385, EN1077, EN 966, ASTM 2040, Snell S98 or equivalent with a brightly coloured region of at least 300 square centimetres of the exterior surface that can be seen from above the water with crew lying face down or face up. When Flag T is flown by the Race Committee Rule C 3 (b) is suspended.

(c) Each crew member shall carry a cutting device with a blade length of no more than 150mm.

OPTIONAL
(a) Each crew member may wear body protection. If the body protection also acts as a personal flotation device it shall comply with Class Rule 3 (a).

C.4 ADVERTISING
C.4.1 Advertising as chosen by the Person in Charge is unrestricted as in accordance with World Sailing Regulation – Advertising Code 20.3.1.1. and 20.3.1.2

C.4.2 In accordance with World Sailing Regulation 20.5.4 the area on the jib, (except for the visibility window), is limited to Event Advertising. Event Advertising on the jib shall be displayed only where the event organiser has agreed such advertising with the class association and the requirement is published in the Notice of Race.

C.4.2 For the purpose of World Sailing Advertising Code, the gennaker shall be deemed a spinnaker.

C.5 PORTABLE EQUIPMENT
C.5.1 MANDATORY
(a) The righting line must be led under the trampoline with both ends fixed to the Front Cross Beam at either sides of the hulls and held under tension by the use of shockcord and rings.

C.5.2 OPTIONAL
(a) Timing devices.
(b) One compass with bracket, which may include a timing device. If electronic, only a compass with heading, heading memory and timing functions is permitted.
(c) Spare parts and tools.
(d) Camera recording equipment and attachments when and where permitted by the Notice of Race and/or Sailing Instructions.

C.6 BOAT

C.6.1 MODIFICATIONS

(a) shockcord with a maximum diameter of 5 mm may be added without restrictions but shall not be used in such a way as to create a fitting or extend a function of a permitted fitting.

(b) adhesive tape may be applied without restriction above the waterline when the boat is floating in its flotation trim.

(c) rings may be added without restriction but shall not be used in such a way as to create a fitting or extend a function of a permitted fitting.

(d) ropes of any length and diameter may be added without restriction but shall not be used in such a way as to create a fitting or extend a function of a permitted fitting.

(e) plastic balls may be added without restriction but shall not be used in such a way as to create a fitting or extend a function of a permitted fitting.

(f) blocks with a maximum sheave diameter of 20mm may be added without restriction but shall not be used in such a way as to create a fitting or extend a function of a permitted fitting.

(g) Fasteners may be replaced or added if the function of the fitting or part is not altered and, where required to facilitate a repair, the fitting may be modified to accommodate slightly larger fixings with the following exception:

1) Beam bolts, may only be replaced by Nacra supplied bolts.

(h) To facilitate advertising, the application of vinyl, mylar or other plastic film over the surfaces of the hull, sails and spars 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 or air inside the boundary layer.

(i) The righting line may be changed to a minimum diameter of 5 mm and a minimum length of 4500 mm.

(j) Any cleat including integrated fairlead may be replaced with a cleat of similar size and design of any material.

(k) Blocks and block systems and associated fittings may be replaced with blocks or block systems that must comply with the number of sheaves, dimensions, tolerances and remarks as stated in PART III- Appendices, with the following exceptions:

1) The mainsheet system number of sheaves may be altered to achieve a maximum purchase of 12:1 and a minimum purchase of 10:1, only one ratchet block is allowed in the mainsheet system.

2) The block on the jib track car may have a double sheave block or single sheave block to create a 2:1 purchase, as listed in appendix section I.

3) The four supplied blocks for the Gennaker sheets, may be changed to any type of block with a minimum sheave diameter of 38mm and a maximum of 60mm.

(l) The attachment fittings of the mainsheet blocks and mainsheet block system, from the strap on the sail and to the traveller car eye, may be replaced by attachment fittings of any length of ropes, shackles or other items and their combinations. Both ends of blocks and block systems including all attachment fittings, must remain in the straight line from the traveller car eye to the strap on the sail. Any other attachment of blocks may be replaced by attachments of substantially the same size and design.
(m) The bolts securing the lower daggerboard bearing to the hull may be replaced by longer bolts. The daggerboard hold down system lines may be connected to eye bolts or eye nuts fastened to the longer bolts.

C.6.2 MAINTENANCE
(a) Maintenance (as defined in Section A) for the boat is permitted with the following exception:
   For hull appendages maintenance is only permitted as defined in rule C.8.2.

C.6.3 REPAIR
(a) All Repairs (as defined in Section A) require written approval unless stated otherwise in these Rules.
(b) Approval may only be granted by the IN17CA Technical Committee.
(c) Permission to undertake a repair during an event may be granted by the event Technical Committee. The required written approval by the IN17CA Technical Committee may be granted after the event.
(d) Repairs shall not be used to reinforce an existing part and shall not alter the essential shape, characteristics and function of the original equipment.

C.6.4 WEIGHT
The weight of the boat in dry condition shall be a minimum of 163 kg. The weight of the boat shall be taken including: hulls, the fully assembled platform, hull appendages, rig, fittings and the righting line. But excluding rig fittings not permanently fixed, the tiller extension, sails and all optional portable equipment listed in C.5. The compass bracket shall be included if permanently fixed.

C.6.5 CORRECTOR WEIGHTS
(a) When the boat weight is less than the minimum requirement, Corrector weights of lead shall be fastened to the inside of the dolphin Striker (V Bar) at locations avoiding the intersection of the front cross beam and the dolphin stricker rod. The location must allow to apply event limitation marks and allow visual inspections.
(b) The total weight of corrector weights shall not exceed 4kg for boats with original World Sailing / ISAF plaque number 336 or higher (newer) and shall not exceed 7 kg for boats lower (older) than 336. The weight of materials used to fasten the corrector weights shall not be included in the corrector weights calculation.

C.7 HULL
C.7.1 MODIFICATIONS
(a) Non-skid tape may be applied to:
   (i) the upper deck areas in front of the front cross beam
   (ii) the rear cross beam
   (iii) the upper deck areas behind the rear cross beam
   (iv) the front cross beam
(b) Wedges may be fitted under the rotation line clam-cleats.
(c) Stand-up springs or boots may be fitted between the gennaker blocks and
the eye-straps on the deck.

(d) Four foot straps may be fitted to each **hull**, at least one of which, and no more than two, must be rear of the aft cross beam. The forward foot straps must only be anchored to the **hulls** using the anchor points built into the **hull** as supplied and/or anchored to the shroud base and/or anchored to the forward cross beam.

(e) Two deck eyes per hull may be fitted on the deck area between the cross beams for the sole purpose of routing the trapeze take up shockcord.

(f) Holes may be made in the **hull** or deck mouldings only in the following cases:
   (i) for the purpose making repairs.
   (ii) to fit the rear foot strap(s) astern of the rear cross beam.
   (iii) to attach the deck eyes for the trapeze elastics.

(g) Shockcord may be led through the breather hole in the center of the top hatches.

C.7.2 MAINTENANCE

(a) Maintenance (As defined in Section A) for the **hull** is permitted.

(b) The supplied non-skid ‘pro-grip’ in the deck moulding may be replaced by the same type only (EVA Foam 3mm thickness, supplied by Nacra licenced suppliers).

C.7.3 REPAIR

Repairs (As defined in Section A) for the **hull** require approval as described in C.6.3, except filling and blending of small voids (chips and gouges) of ~20mm x 20mm which may be carried without approval.

C.7.4 LIMITATIONS

Only one starboard **hull** and one port **hull** shall be used in an event, except when lost or damaged beyond repair. Any replacement shall only be made with the approval of the Race Committee or event Technical Committee.

C.8 HULL APPENDAGES

C.8.1 MODIFICATIONS

(a) The rudder pin may be packed with washers.

(b) Rudder guides (rudder stock washer trailing edge) may be replaced but the replacement shall smaller than 30mm in diammeter if disk shaped and smaller than 30mm x 30mm if rectangular.

(c) The rudder clamps (quick release bicycle style clamp) may be replaced with other clamps. The replacement shall be manually removable on the water without requiring tools, have no protrusions in the vertical or forward direction, and add no function.

(d) The rope handle of the daggerboard, may be replaced by a rope with a maximum length of 600 mm.

(e) The two bolt head voids created by joining the **rudder** to the elevator may be filled and faired.

(f) The void found between the **rudder** and the elevator may be filled and faired.
(g) The tiller extension may be replaced by tiller extensions of other dimensions and materials.

C.8.2 MAINTENANCE

(a) Maintenance (as defined in Section A) of hull appendages is permitted with the following exceptions:

For daggerboards and rudders:

(i) Coating (as defined in Section A) is not permitted as part of Maintenance.

(ii) Sanding (as defined in Section A) is permitted on the paint layer on the outermost sides of the appendages. Sanding of the internal carbon fibre or (opaque) factory filler is not permitted as part of Maintenance.

(iii) Lubricating (as defined in Section A) is only permitted for the purpose of reducing bearing friction while raising and lowering the appendages.

C.8.3 REPAIR

(a) Repairs (as defined in Section A) for hull appendages require approval as described in C.6.3, except repairs of small voids (chips and gouges) of ~10mmx10mm which may be carried without approval.

(b) All Repairs require the use of approved coating products:

(i) The approved products are:
   - PPG D8115 Deltron Progress Matt Clearcoat
   - PPG D8302 Deltron Progress UHS Hardener
   - PPG D8718 Deltron Medium Thinner

(ii) Durepox High Performance Clear
    - Durepox Hardener

(iii) Awlgrip Clear G3005
    - Awlgrip Hardener G3010
    - Awlgrip Solvent T00003

(iv) Equivalent products may be used only with pre-approval from the IN17CA Technical Committee.

C.8.4 LIMITATIONS

(a) Only one starboard daggerboard, one starboard rudder, one port daggerboard and one port rudder shall be used in an event, except when lost or damaged beyond repair. Any replacement shall only be made with the approval of the Race Committee or event Technical Committee.

(b) The rudder rake shall not be adjusted while racing.

(c) Both daggerboards shall be in the fully-down position whilst racing, with an exception being that they may be raised to clear the boat from becoming afoul of in-water items, and should be immediately placed back into the fully-down position once becoming clear of in-water items. When Flag R is flown by the Race Committee Rule C8.4 (c) is suspended.
C.9  ASSEMBLED PLATFORM
C.9.1  MODIFICATIONS
(a) The Jib sheet and Cunningham trim line retraction systems may be replaced and modified to make them continuous by the addition of one block per system per hull with a maximum sheave size of 22mm attached using rope and/or shockcord.
(b) Beams may be bedded in on the hull and shall be able to be removed without damage to either the hull or beam. The bedding shall not change in any way, the shape or position of the hulls.
(c) The ‘chicken line’ may be rigged in any manner the crew deems suitable so long as it does not perform any other function than aiding the support of a crew.
(d) The two webbing straps sewn into the trampoline, approximately 30mm long that run parallel with the cross beams forward of the center of the trampoline, may be removed from the trampoline. They may be cut out and removed without removing the sewing, to avoid weakening or creating a puncture in the trampoline.
(e) Fittings may be replaced with fittings of similar size and design.

C.9.2  MAINTENANCE
Maintenance (As defined in Section A) for the Cross Beams is permitted.

C.9.2  REPAIR
Repairs (As defined in Section A) for the Cross Beams require approval as described in C.6.3.

C.9.3  DIMENSIONS
(a) Front Cross Beam curvature

<table>
<thead>
<tr>
<th>Front cross beam curvature</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>15 mm</td>
</tr>
</tbody>
</table>

Front cross beam curvature is the greatest distance between:
- the highest point of the underside of the front cross beam, and;
- a straight line from the port and starboard bottom points of the cross beam at the intersection with the hull taken at 90° to the straight line with the dolphin-striker tensioned and platform assembled, the mast removed, and the front and rear cross beams bedded and tightened into their respective hulls.
C.10 RIG

C.10.1 MODIFICATIONS

(a) The use of tape is permitted to protect the mast from the rigging.
(b) Calibration marks are permitted.
(c) Boomouthaul clamcleat CL277 fitting may be removed and the system may be changed to a rope only trim system.
(d) Two additional holes may be drilled with a max. diameter of 8 mm in the Boomouthaul end.
(g) Tufts or ribbons in the rigging are allowed.
(h) A protective cover made only from sail cloth and attached by adhesive tape with a max size of 300mm by 350mm may be fitted over the hounds.
(i) Fittings may be replaced with fittings of similar size and design.

C.10.2 MAINTENANCE

(a) Cleaning and polishing (as defined in Section A) is permitted.

C.10.3 REPAIR

(a) in the event of damage to a RIG:
   (i) Repairs to spars, spreaders, and standing rigging require written approval of the IN17CA Technical Committee.
   (ii) Repairs to running rigging may be carried out without approval.

C.10.4 FITTINGS

(a) USE

   (1) Lower hole of the hounds shall be used to fit the forestay and shrouds.
   (2) The middle and top hole of the hounds may be used to fit the trapeze wires.
   (3) The trapeze wires may also be fitted through the upper terminal of the shrouds.
   (4) Mechanical wind indicators may be used.

C.10.5 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 beyond repair. Any replacement shall only be made with the approval of the Race Committee or event Technical Committee.

C.10.6 STANDING RIGGING

(a) MODIFICATION, MAINTENANCE AND REPAIR.

(1) Standing rigging may be replaced and shall comply with Appendix Section I

(2) The stay adjusters of the forestay and shrouds may be replaced by a turnbuckle of the following manufactures:
   • Sta/Master PAT. 8,281,080
• Ronstan Calibrated Turnbuckles RF1575
• NavTec Quickfit lifeline Turnbuckle 316
• Blue Wave Spanner (Mono race tuning – MRT-Calibrated AISI 316.
• C.S. Johnson 12-100 Stay Adjuster – Calibrated.
• Blue Wave QRT19014

Turnbuckles form other manufacturers may be used if pre-approved by the IN17CA Technical Committee in writing.

3) The shrouds and forestay terminal wire connectors may be replaced by fittings of substantially of the same size, weight and structural design.

4) The ring of the Jib Halyard Locking system shall be in the same position as on the standard forestay, of the same size and structural design, with the exception; the ring of the locking system may be fitted to the forestay by rope.

5) Carbon tubes or other similar cylindrical covers of up to 20 cm in length may be used to cover shroud turnbuckles and chainplates.

(b) DIMENSIONS
(i) Forestay Control:
The minimum distance measured along the foreside of the mast from the bottom cut of the carbon mast assembled and seated into the mast base to the forestay pin center location when the forestay and forestay fitting are both fully extended to a maximum range shall be 295mm.

(c) USE
(1) Standing rigging shall not be adjusted while racing.

C.10.8 RUNNING RIGGING
(a) MODIFICATION, MAINTENANCE AND REPAIR.
(1) Running rigging may be replaced and shall comply with Appendix section I.

(2) The trapeze system arrangement is open and may be modified to include an adjustable hook height system provided that the attachment methods by shockcord to the hull and front cross beam are not changed.

(3) The Cunningham trim line may be led through a block with a maximum sheave diameter of 22mm attached to the trapeze system by rope.

(4) The gennaker tack-line inboard end block may be attached by rope to the shrouds, gennaker strap-eye or front cross beam casting.

(5) Mast rotation line may be modified to a continuous system.

(6) A rope with a ring may be fitted to the gennaker clew for the purpose of leading the gennaker retrieval line through this ring.
(b) USE

Running rigging shall be led through and attached to the fittings supplied for their function with the following exception:

The take-up and lacing of running rigging used to control daggerboard rake via the supplied worm drive may be changed from the building specification.

C.11 SAILS

C.11.1 MODIFICATIONS, MAINTENANCE AND REPAIR

(a) Repair of sails may be carried without approval with the following exception:

(i) During an event, repairs of sails require the approval of the Event Technical Committee.

(b) The following is permitted without approval:

(i) Addition of tell tales

(ii) Addition of camber stripes

C.11.2 LIMITATIONS

(a) Not more than 1 mainsail, 1 jib and 1 gennaker shall be used during an event except when a sail has been lost or damaged beyond repair. Any replacement shall only be made with the approval of the Race Committee or Event Technical Committee.

C.11.3 MAINSAIL

(a) MODIFICATION, MAINTENANCE AND REPAIR.

(1) The Cunningham blocks HK300 attached in the mainsail may be replaced by blocks from any other manufacturer with the same number of sheaves and a sheave diameter tolerance of ±2 mm.

(2) The application of vinyl, mylar or other plastic film permitted in C.6.1(h) over the surfaces of the mainsail shall not cover the window panels (blue coloured panels in Appendix section K) in the sail and the batten pockets on the port side of the sail in order to identify the batten certification stickers.

(b) IDENTIFICATION

(1) Sail numbers shall be any of the following:

(i) The number shown on the ISAF/World Sailing International Class building plaque on the boat, or on any boat still owned by the crew members.

(ii) In the International Nacra 17 Class World Championships (Excluding Junior World Championships), Continental Championship and Sailing World Cup events, any helm or crew ever having placed in the top 25 at a Nacra 17 Class World Championship previously or having competed at the most recent Olympic Games shall use an ICA issued personal sail number between 1 – 99, which shall be renewed on an annual basis. Helms having raced at the previous Olympic Games, may use the number corresponding with their Olympic finish.

(2) The national letters and the sail numbers shall be black in colour and applied according to the dimensions as defined in Appendix section K immediately under batten nr. 4. The national letters and numbers shall
comply with the RRS Appendix G except where specified otherwise in (b) IDENTIFICATION and in Appendix section K.

(3) The area between the second from the top and third sail batten of the mainsail shall be kept free of competitor advertising, and shall be reserved for the Class Insignia, as specified in Appendix Section K.

(c) BATTENS
Batten numbers 1, 2, 3 and 4 of the mainsail may be separately replaced by either hard, medium or soft Nacra Licensed supplied battens.

(d) NATIONAL FLAGS
(i) All teams when racing in the Nacra 17 World Championships, Continental Championships and World Cup Series events shall display their national flag. The flag shall be placed on the starboard side of the mainsail between the 3rd and 4th battens from the head point of the sail.
(ii) Flags shall only be ordered and purchased through the IN17CA.
(iii) The National Flag shall be corresponding to the Country Code displayed in the sail number.

(e) USE
(i) The sail shall be hoisted on the halyard. The Nacra licensed supplied arrangement shall permit hoisting and lowering of the sail whilst afloat.

C.11.4 JIB

(a) MODIFICATION, MAINTENANCE AND REPAIR.

(1) The application of vinyl, mylar or other plastic film permitted in C.6.1(h) over the surfaces of the jib shall not cover the window panels (blue coloured panels in Appendix section K) in the sail and the batten pockets on the port side of the sail in order to identify the batten certification stickers.

(b) USE
(i) The sail shall be hoisted on the halyard. The Nacra licensed supplied arrangement shall permit hoisting and lowering of the sail whilst afloat.

C.11.5 GENNAKER

(a) MODIFICATION
The gennaker may be painted for graphics.

(b) LIMITATION
Olympic national flag gennakers may be used for racing except in World Championship events.

(c) USE
(i) A boat shall not set the gennaker when sailing on a leg to a windward mark from a leeward mark.
Section D – Platform

D.1 PARTS
D.1.1 MANDATORY
(a) Starboard hull
(b) Port hull
(c) Front cross beam
(d) Rear cross beam
(e) Trampoline

D.2 MODIFICATIONS, MAINTENANCE AND REPAIR
The alterations contained in D.2.1 to D.2.3 may be made by NS, or by anybody after a formal request has been made to the NS and written approval is received by the owner. This shall require the manufacturer’s declaration to be re-issued.

D.2.1 MODIFICATIONS
(a) Cross beam reinforcements

Boats with original World Sailing / ISAF plaque number 336 or higher (newer) must have the front cross beam updated insert.

(b) Rudder rose bearings
Both the original and the new rose bearings are allowed.

(c) Bottom bearing
Both the original and updated bearings are allowed.
D.2.2. MAINTENANCE
(a)

D.2.3. REPAIR
(a) If any hull is damaged and requires repaired in any other way than described in section C the details shall be recorded on the Manufacturers declaration.

D.3 MANUFACTURERS
The parts of section D.1.1 shall only be manufactured by Nacra Licensed Manufacturers.

D.4 IDENTIFICATION
The hull shall carry the licensed manufacturer’s serial number displayed on the transom of the starboard hull.
Items (c),(d) and (e) of section D.1.1 shall carry identification stickers.

D.5 MATERIALS, CONSTRUCTION AND DIMENSIONS
D.5.1 Shall comply with the World Sailing-approved Builders Construction Manual.
D.5.2 PAINT
Only hulls of boats which are older than 4 years can be painted. Severely damaged boats can be painted with only written permission by the NS. after sending a damage report form including pictures to: measurement@nacra17.org.

Section E – Hull Appendages

E.1 PARTS
E.1.1 MANDATORY
(a) Starboard Daggerboard
(b) Port Daggerboard
(c) Starboard Rudderblade
(d) Port Rudderblade
(e) Rudder upper-casting including tiller-arm
(f) Rudder lower-casting
(g) Tiller-bar

E.2 MANUFACTURERS
The parts of section E.1 shall only be manufactured by Nacra Licensed Manufacturers.

E.3 IDENTIFICATION
The daggerboards and rudder blades of items (a), (b), (c) and (d) carry the licensed manufacturer’s serial number displayed on the blade
Rudder castings item (e) and (f) shall carry imbedded Nacra logos.
Tiller bar item (g) shall carry a Nacra 17 identification stickers.

E.4 MATERIALS, CONSTRUCTION AND DIMENSIONS
Shall comply with the World Sailing approved Builders Construction Manual.
Section F – Rig

F.1 PARTS
F.1.1 MANDATORY
(a) Mast
(b) Spreaders
(c) Boom
(d) Bowsprit including snuffer ring
(e) Compression post
(f) Spi snuffer bag

F.2 MANUFACTURERS
The parts of section F.1 shall only be manufactured by Nacra Licensed Manufacturers.

F.3 IDENTIFICATION
The mast (a) shall carry the licensed manufacturer’s serial number displayed on the mast section.
Items (b), (c), (d), (e) and (f) shall carry a Nacra 17 identification stickers.

F.4 MATERIALS, CONSTRUCTION AND DIMENSIONS
Shall comply with the World Sailing approved Builders Construction Manual.

Section G – Sails

G.1 PARTS
G.1.1 MANDATORY
(a) Mainsail
    With seven battens numbered from the head point of the sail down as shown in Section K.
(b) Jib
    With three battens: Top Jib Batten, Middle Jib Batten and Lower Jib Batten
(c) Gennaker

G.2 MANUFACTURERS
Sails of section G.1.1 shall only be manufactured by Nacra Licensed Manufacturers.

G.3 IDENTIFICATION
The mainsail, jib and gennaker shall carry the licensed manufacturer’s serial number displayed on the sails.
Battens shall carry Nacra 17 identification stickers.
Battens are numbered to match a batten pocket in the sail.

G.4 MATERIALS, CONSTRUCTION AND DIMENSIONS
Shall comply with the World Sailing approved Builders Construction Manual.
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.

Section H: MANUFACTURED PART LIST

The following components shall comply with the building specification in force at the time of manufacture. As required, components shall have identification stickers attached by the builder at the time of manufacture or by the measurer:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Component</th>
<th>Associated Hardware</th>
<th>Iden. sticker</th>
<th>Ident. Nr.</th>
<th>Options or tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Hull</td>
<td></td>
<td>Required</td>
<td>Yes</td>
<td>Nacra Licensed suppliers only</td>
</tr>
<tr>
<td>2</td>
<td>Mast rotation cam-matic HK469</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Gennaker HK2135 57 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Gennaker sheet HK2636 40 mm</td>
<td>Required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Tackline cheek HK233 22mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Eye-strap 16mm single HK442</td>
<td>Required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Eye-strap 16mm single HK442</td>
<td>Required</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Spreaders (6 components)</td>
<td>Required</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Boom Gooseneck U-fitting</td>
<td>Required</td>
<td>Yes</td>
<td>Nacra Licensed suppliers only</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Snuffer ring</td>
<td>Required</td>
<td>Yes</td>
<td>Nacra Licensed suppliers only</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Tackline stand-up HK349</td>
<td>Required</td>
<td>Yes</td>
<td>Nacra Licensed suppliers only</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Clamcleat jib carline CL211</td>
<td>Required</td>
<td>Yes</td>
<td>Nacra Licensed suppliers only</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Jib sheet cheek HK416</td>
<td>Required</td>
<td>Yes</td>
<td>Nacra Licensed suppliers only</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Jib cunningham cheek block HK416</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Spi snuffer bag</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Bowsprit</td>
<td>Required</td>
<td>No</td>
<td>Nacra Licensed suppliers only</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Ruddersystem</td>
<td>Required</td>
<td>Yes</td>
<td>Nacra Licensed suppliers only</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Ruddersystem</td>
<td>Required</td>
<td>Yes</td>
<td>Nacra Licensed suppliers only</td>
<td></td>
</tr>
</tbody>
</table>

(Where no comment as per class rules)
## Section I: RIGGING LIST

<table>
<thead>
<tr>
<th>Running Rigging</th>
<th>Size</th>
<th>Associated Hardware/material</th>
<th>Remark/tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mainsheet with splittail 1:10</td>
<td>Qty 1 mm</td>
<td>HC 8454</td>
<td>±3 mm diam. sheave</td>
</tr>
<tr>
<td>Mainsheet with splittail 1:12</td>
<td>Qty 1 mm</td>
<td>HC 7668</td>
<td>±3 mm diam. sheave</td>
</tr>
<tr>
<td>Gennaker Halyard core-cover</td>
<td>Qty 1 mm</td>
<td>HC 8454 + HC 2650</td>
<td>±3 mm diam. sheave</td>
</tr>
<tr>
<td>Main Halyard</td>
<td>Qty 1 s</td>
<td>ring w/shackle</td>
<td>Nacra Licensed suppliers only</td>
</tr>
<tr>
<td>Jib Halyard</td>
<td>Qty 1 s</td>
<td>s-hook jib</td>
<td>Nacra Licensed suppliers only</td>
</tr>
<tr>
<td>Gennaker Sheet</td>
<td>Qty 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gennaker Tackline</td>
<td>Qty 1</td>
<td>HK 348 29mm</td>
<td></td>
</tr>
<tr>
<td>Main Downhaul purchase 1:8</td>
<td>Qty 2 mm</td>
<td>HK 406 double 16 mm</td>
<td>±3 mm diam. sheave</td>
</tr>
<tr>
<td>Main Downhaul purchase 1:2</td>
<td>Qty 2 mm</td>
<td>HK 406 16 mm (car block)</td>
<td>±3 mm diam. sheave</td>
</tr>
<tr>
<td>Jib sheet 1:3</td>
<td>Qty 1</td>
<td>HK 348 29mm</td>
<td>±3 mm diam. sheave</td>
</tr>
<tr>
<td>Jib sheet 1:2 (optional)</td>
<td>Qty 1</td>
<td>HK 348 29mm (car block)</td>
<td>±3 mm diam. sheave</td>
</tr>
<tr>
<td>Jib downhaul 1:2</td>
<td>Qty 1</td>
<td>HK 348 29mm (car block)</td>
<td>±3 mm diam. sheave</td>
</tr>
<tr>
<td>Spin block line</td>
<td>Qty 1</td>
<td>HK 348 29mm</td>
<td>±3 mm diam. sheave</td>
</tr>
<tr>
<td>Spin Bale</td>
<td>Qty 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotation line</td>
<td>Qty 1</td>
<td>ring max. diameter 30mm</td>
<td>±5 mm inside diam.</td>
</tr>
<tr>
<td>Spin tack release</td>
<td>Qty 1</td>
<td>ring max. diameter 30mm</td>
<td></td>
</tr>
<tr>
<td>Hiking strap tie</td>
<td>Qty 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Righting line</td>
<td>Qty 1</td>
<td>4500</td>
<td>As per C.6.1(c)</td>
</tr>
<tr>
<td>Gennaker clew take down line</td>
<td>Qty 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Nacra 17 Class Rules

**Effective date: 2019-03-25**

## Running Rigging

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>Options or tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>29mm</td>
<td>HK 348</td>
<td>±3mm diam. Sheave</td>
</tr>
</tbody>
</table>

**Spinblock shockcord**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>Options or tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>Shockcord</td>
<td></td>
</tr>
</tbody>
</table>

**Spintack shockcord**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>Options or tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>Shockcord</td>
<td></td>
</tr>
</tbody>
</table>

**Front cross beam rigging**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>Options or tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>HK 348 29mm</td>
<td>±3mm diam. Sheave</td>
</tr>
</tbody>
</table>

**Jibsheet trim 1:2**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>Options or tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>HK 348 29mm</td>
<td></td>
</tr>
</tbody>
</table>

**Jib and Cunningham retraction system**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>Options or tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>HK 406 16 mm double</td>
<td>±3mm diam. Sheave</td>
</tr>
</tbody>
</table>

**Jib downhaul trim 1:2**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>Options or tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>HK 404 16 mm</td>
<td>±3mm diam. Sheave</td>
</tr>
</tbody>
</table>

**Rear cross beam rigging**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>Options or tolerances</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td>16 mm</td>
<td>HK 404</td>
<td>±3mm diam. Sheave</td>
</tr>
</tbody>
</table>

**Standing rigging**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>options or restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>6250</td>
<td>4.0</td>
<td>Standard 1 x 19 stainless steel wire</td>
<td>±0.05 mm diam. wire and C.10.5 (a)</td>
</tr>
</tbody>
</table>

**Bridle**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>options or restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>Standard 1 x 19 stainless steel wire</td>
<td>Nacra Licensed suppliers only</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td></td>
<td>Bridle fitting NA31698</td>
<td></td>
</tr>
</tbody>
</table>

**Shrouds**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>options or restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>6810</td>
<td>4.0</td>
<td>Standard 1 x 19 stainless steel wire</td>
<td>Nacra Licensed suppliers only</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td>Sta/Master</td>
<td>C.10.7(a)(2)</td>
</tr>
</tbody>
</table>

**Diamonds**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>options or restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>6100</td>
<td>4.0</td>
<td>Standard 1 x 19 stainless steel wire</td>
<td>Nacra Licensed suppliers only</td>
</tr>
</tbody>
</table>

**Bowsprit bridle**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>options or restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1475</td>
<td>2.5</td>
<td>Standard 1 x 19 stainless steel wire</td>
<td>diam. ±0.1 mm, length ± 5 mm</td>
</tr>
</tbody>
</table>

**Bowsprit mid-bridge**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>options or restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1750</td>
<td>3.0</td>
<td>Dyneema Sk75/80 or polyester</td>
<td>±0.2 mm diam.</td>
</tr>
</tbody>
</table>

**Tramp lace rear**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>options or restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4300</td>
<td>3.0</td>
<td>Dyneema Sk75/80 or polyester</td>
<td>±0.2 mm diam.</td>
</tr>
</tbody>
</table>

**Tramp laces side**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>options or restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4000</td>
<td>3.0</td>
<td>Dyneema Sk75/80 or polyester</td>
<td>±0.2 mm diam.</td>
</tr>
</tbody>
</table>

**Trapeze lines**

<table>
<thead>
<tr>
<th>Qty</th>
<th>Length</th>
<th>Diam.</th>
<th>Material/Associated Hardware</th>
<th>options or restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td></td>
<td>2.5</td>
<td>open, see C.10.8 (a)(1)</td>
<td>10.2 mm diam. Shall be either 1x19 stainless steel wire, Dyneema sk75/80 or polyester or a combination.</td>
</tr>
</tbody>
</table>

---

(1) Length is the distance taken between the bearing surfaces of the rigging.
(2) Advisory length no tolerances apply.
Section J: HULL DRAWINGS
Section K: NACRA 17 SAIL ARRANGEMENT

Effective Date: 2019-03-25
Previous issues: 1 05 January 2018

© World Sailing 2019