Effective Date: 26th March 2026
Status: Approved

Class Rules

International Nacra 17 Class Association

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

sport / nature / technology

World Sailing Class Association

INDEX

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 manufacturer controlled.

Nacra 17 hulls, hull appendages, cross beams, trampoline, rigging and sails shall only be manufactured by licensed manucfaturers – in the class rules referred to as 'Licensed Manufacturers'. Equipment is required to comply with the 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.

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.2 ABBREVIATIONS

A.2.1

WS	World Sailing
MNA	World Sailing Member National Authority
NS	Nautical Sports bv also referred to in the rules as Nacra (the copy right 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 WS which shall co-operate with the IN17CA in all matters concerning these **class rules**.

A.4 ADMINISTRATION OF THE CLASS

A.4.1 WS has delegated its administrative functions of the class to the IN17CA.

A.5 CLASS RULES VARIATIONS

A.5.1 At events RRS 87 applies. When the **class rule** permits a change by the Notice of Race or Sailing Instructions, no permission from the IN17CA is required. For all other **class rules**;

a) At Olympic qualifiers or Olympic Test events, world, continental or regional championships, the permission from the IN17CA will only be given with the approval of WS.

b) At other events, the permission from the IN17CA will only be given with the approval of the MNA.

A.6 CLASS RULES AMENDMENTS

A.6.1 WS Regulation 15.9 shall apply.

A.7 CLASS RULES INTERPRETATION

A.7.1 Interpretation of **class rules** shall be made in accordance with WS Regulations and 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 WS 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 WS shall, after having received the International Class Fee for the **hull**, send the World Sailing Building Plaque to the Licensed Manufacturer.

A.9 CERTIFICATION

A.9.1 Written **certification** will not be issued.

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

B.1.1 The **boat** shall:

(a) have a WS Building Plaque

(b) have been manufacturerd by a Licensed Manufacturer.

(c) be in compliance with the **class rules**.

B.2 EVENT LIMITATION MARKS

B.2.1 If an event uses **event limitation marks** these marks shall not be removed during the event. If an **event limitation mark** becomes damaged or lost this shall be reported to the Race Committee or Event Technical 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 rules in Part II are **closed class rules**, where anything that is not specifically allowed in these **class rules** is prohibited.

Equipment control and **event 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(c)(2) is changed as follows:

"except on a beat to windward, each **sail** may be pulled in any number of times to initiate foiling."

C.1.2 LIMITATIONS

(a) Where replacement equipment other than from Licensed Manufacturers is permited by these rules, it may be obtained from any supplier provided that the replacement is of a similar weight, size and type, and 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 **crew** *racing* a **boat** with original WS/ISAF plaque number lower than (older than) 336 shall not be allowed to compete at the Olympic Games or in a Gold Fleet at a Class World Championship, excluding Junior World Championships.
Any **crew** qualifying for the 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, except C.6.1 (a) and (b). C.7.1(f), C.10.1(a), (b), (e), (h), C.11.1(b), 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, Trofeo S.A.R Princess Sofia, SOF Semaine Olympique Francaise de Voile, Kieler Woche, Long Beach Olympic Classes Regatta and the Dutch Water Week events, or when invoked by the NoR.

C.2.2 MEMBERSHIP

During World Championships, Continental Championships, Trofeo S.A.R Princess Sofia, SOF Semaine Olympique Francaise de Voile, Kieler Woche, Long Beach Olympic Classes Regatta and the Dutch Water Week events, or

when invoked by the NoR, each **crew** member shall be a current member of the IN17CA.

C.3 PERSONAL EQUIPMENT

C.3.1 MANDATORY

(a) For Use:

(i) 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.

(ii) 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.3.1(ii) is suspended.

(iii) Each **crew** member shall carry a cutting device with a covered blade of a maximum length of 150 mm.

(iv) The maximum permitted weight of the trapeze harness shall be 2.4 kg. This changes RRS 50.1 (b).

(v) Trapeze harnesses which are not of the quick release variety are permitted. This changes RRS 50.1(c).

(vi) The trapeze harness shall have positive buoyancy in fresh water.

C.3.2. OPTIONAL

(a) For Use:

(i) Each **crew** member may wear body protection. If the body protection also acts as a **personal flotation device**, it shall comply with class rule C.3.1(a)(i)

(ii) Heart rate monitors that provide no function other than data recording are permitted.

C.4 ADVERTISING

C.4.1 Advertising as chosen by the Person in Charge is unrestricted in accordance with the WS Advertising Code 3.1 and 3.2

C.4.2 In accordance with the WS Advertising Code 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 IN17CA and the requirement is published in the Notice of Race.

C.4.3 For the purpose of the WS Advertising Code, the gennaker shall be deemed a **spinnaker**.

C.5 PORTABLE EQUIPMENT

C.5.1 MANDATORY

(a) For Use:

(i) The following equipment when supplied by the Organising Authority and required by the Notice of Race or the Sailing Instructions:

a. Sound recording equipment and associated attachments.
b. Camera recording equipment and associated attachments.
c. Tracking equipment and associated attachments.

C.5.2 OPTIONAL

(a) For Use:

(i) Timing function carried or worn separately in one device, or with timing function combined with other approved functions and services in one device.
(ii) Boat heading function in one device using magnetic input. If digital/electronic, the device with magnetic input may combine and store boat heading direction together with wind shift detection and timing functions.
(iii) The device display letters and numerals shall be not more than 30 mm high and show only;
- boat heading (damping may be adjusted manually),
- Calculated wind direction determined from manual input and adjustment of tacking angles manually for windshift detection),
- time,
- race timing information,
- identification,
- battery condition, system error, adjustment and calibration information.

(iv) Race timing information may be transmitted by sound. The electronic/digital devices shall not deliver, store or correlate information in any way except as described in this section.
(v) Magnetic compasses having no electronics.
(vi) Camera recording equipment and attachments when and where permitted by the Notice of Race and/or Sailing Instructions.
(vii) Spare parts, tools, shockcord, rope, pulleys, rings, and plastic balls.

C.6 BOAT

C.6.1 MODIFICATIONS

(a) Shockcord with a maximum diameter of 5 mm, rings, ropes of any length and diameter, plastic balls, and blocks with a maximum sheave diameter of 20 mm may be added for the following functions:

(i) lift the cunningham block system and/or **trapezes** and/or pull out the jib sheet car.
(ii) indicate the rake position of the **daggerboards** and/or the **mainsheet**.
(iii) lead the jib sheets, **trapezes**, trapeze take up, tack line, righting line, rotation of the mast spanner, gennaker sheets, jib **halyard**, gennaker **halyard**, **mainsheet**, cunningham line, worm wheel, adjustable rudder rake control line systems.
(iv) take up within the Beams.
(v) dampen the tiller bar.
(vi) create mast rotation marks.
(vii) shockcord and ropes may also be used to secure items, to prevent catching of any part and in the place of washers.

(b) Adhesive tape may be applied above the **waterline**, except on **sails** where C.11.1(a) applies for **repairs** and C.11.3 (3) for **seam** reinforcing.

(c) **Fasteners** may be replaced or added and, where required to facilitate a **repair**, the **fitting** may be **modified** to accommodate slightly larger **fastenings** with the following exception: Beam bolts may only be replaced by bolts from a Licenced Manufacturer.

(d) To facilitate advertising, the application of vinyl, mylar or other plastic film over the surfaces of the **hull** (above the line of **flotation trim**), **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.

(e) A righting line of minimum diameter of 5 mm and a minimum length of 4500

mm shall be fitted. The righting line shall be led under the trampoline with one end fixed to the Front Cross Beam at the port side of the **hull** and the other end fixed to the Front Cross Beam at the starboard side of the **hull** and held under tension by the use of shockcord and rings.

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

(g) 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:

i. The mainsheet system may be replaced with any system that results in 10:1, 11:1 or 12:1 purchase. The sheave sizes must be between 40 and 60 mm. The complete system shall be led between the traveller car and mainsail webbing strop. One sheave only may be a ratchet.

ii. The double block on the jib track car may be replaced by a single block of any diameter sheave to create a 2:1 system.

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

iv. The tack line may have a sheave added to create a 1:2 purchase after the cleat.

(h) The attachment **fittings** of the mainsheet blocks and mainsheet block system, from the strap on the **mainsail** 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.

(i) 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.

(j) The rake of the **rudders** may be controlled separately for each **hull**. Any cleats and blocks on the **hulls** for the control of the adjustable rudder rake system may be replaced or added, however, the permitted location of these **fittings** shall be as defined in D.2.1(d) and by Nacra Sailing.

(k) The rope for the adjustable rudder rake system may be replaced.

(l) The tiller bar may be shortened.

(m) Holes may be added to the Cross Beam end caps and grommets may be installed for the purpose of feeding take up lines.

C.6.2 MAINTENANCE

(a) **Maintenance** to the **boat** is permitted with the following exceptions:
For **hull appendages, maintenance** is only permited as defined in class rule C.8.2.

C.6.3 REPAIR

(a) All **repairs** require written approval unless stated otherwise in these **class rules.**

(b) Approval may only be granted by the IN17CA Technical Committee. (measurement@nacra17.org)

(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.

C.6.4 WEIGHT

The weight of the **boat** in dry condition shall be a minimum of 165 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 metal shall be attached to the top of the dolphin striker (V Bar). The location must allow the application of **event limitation marks** and allow visual inspections.

(b) The total weight of **corrector weights** shall not exceed 4 kg 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 attach the **corrector weights** shall not be included in the **corrector weights** calculation.

C.7 HULL

C.7.1 MODIFICATIONS

(a) Non-skid tape of a thickness no greater than 3 mm may be applied to any part of the **hull** and Cross Beams above the line of **flotation trim**.
(b) Wedges may be fitted under the rotation line clam-cleats.
(c) Stand-up springs, block end covers 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 Rear Cross Beam. The forward foot straps shall only be anchored to the **hul**l using the anchor points built into the **hulls** as supplied and/or anchored to the shroud base.
(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) Shockcord may be led through the breather hole in the centre of the top hatches.

C.7.2 MAINTENANCE

(a) **Maintenance** of the **hull** is permited.
(b) The supplied non-skid ‘pro-grip’ in the deck moulding may be replaced by the same type only (EVA Foam, supplied by Licenced Manufacturers).
(c) Hatches may be replaced with hatches of the same diameter. A breather hole shall be made in the new hatch cover.

C.7.3 REPAIR

Repairs to the **hull** require approval as described in C.6.3, except filling and **fairing** of small voids (chips and gouges) of no larger than 20 mm x 20 mm, which may be carried out 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 and may be trimmed or cut flush with bottom of the **rudder** casting.

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

(c) One **rudder** gasket per **rudder** stock may be **modified** with new holes, tape and/or spacer material, top or bottom, and shifted fore or aft

(d) 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.

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

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

(g) The void found between the **rudder** and the **hyrdofoil** (elevator) may be filled and **faired**.

(h) The tiller extension may be replaced by tiller extensions of other dimesions and materials.

(i) Only the aft 10 mm of the **hydrofoils** (elevators) and **rudder** blade (vertical) along the trailing edge may be **sanded**. The distance between the leading edges and the trailing edges shall not be reduced. At 1 mm from the trailing edge the thickness shall be no less than 0.6 mm.

(j) **Daggerboards** and **rudders** may be **coated** using one of the products specified in C.8.3.

(k) The **rudder** blade shall be fitted fully into the slot in the **hydrofoil**. The lower 10 mm of the **rudder** blade that fits into the slot on the **hydrofoil** may be **sanded** to achieve this.

(l) The alloy cleats on the tiller arms may be removed.

C.8.2. MAINTENANCE

(a) **Maintenance** of **hull appendages** is permitted with the following exceptions:
For **daggerboards**, **rudders**, **hydrofoils** (elevators), top and bottom daggerboard bearings, rudder castings:

(i) **Sanding** is permitted on the paint layer on the outermost sides of the **daggerboards** and **rudders**.

(ii) **Sanding** of the internal carbon fibre or (opaque) factory filler of **daggerboards** and **rudders** is not permitted as part of **maintenance**.

(iii) **Sanding** of the **hydrofoils** (elevators) and the top and bottom **daggerboard** bearings and **rudder** castings is not permitted as part of **maintenance**.

(iv) **Lubricating** is only permitted for the purpose of reducing bearing friction while raising and lowering the **hull appendages.**

(v) **Coating** as part of **maintenance** requires the use of the approved **coating** products specified in C.8.3.

C.8.3 REPAIR

(a) **Repairs** to **hull appendages** require approval as described in C.6.3, except **repairs** of small voids (chips and gouges) of no larger than 10 mm x 10 mm which may be carried out without the approval of actions and

materials.

(b) **Repairs** to **daggerboards** and **rudders** require the use of approved **coating** products:
The approved products are:
(i) PPG D8115 Deltron Progress Matt Clearcoat
PPG D8302 Deltron Progress UHS Hardener
PPG D8718 Deltron Medium Thinner 11
(ii) Durepox High Performance Clear
Durepox Hardener
(iii) Awlgrip Clear G3005
Awlgrip Hardener G3010
Awlgrip Solvent T00003

(c) 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) Both **daggerboards** shall be in the fully-down position whilst *racing*, with an exception being that they may be momemtarily raised to clear them from in-water items, and shall be immediately placed back into the fully-down position.

(c) Both **rudders** shall be in the fully-down position whilst *racing*, with an exception being that they may be momemtarily raised to clear them from in-water items, and shall be immediately placed back into the fully-down position.

(d) For the LA 2028 Olympic Games, only **daggerboards** manufactured by Element 6 Evolution (serial number greater than 00790) will be permitted.

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 22 mm attached using rope and/or shockcord.

(b) Cross 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) 'Chicken lines' of optional length and diameter may be rigged in any manner the **crew** deems suitable providing it does not perform any other function than aiding the support of a **crew**.

(d) The two webbing straps sewn into the trampoline, approximately 300 mm long that run parallel with the Cross Beams forward of the centre 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.

(f) The two fore and aft full length webbing straps sewn into the trampoline outside the kick bar may be removed. The stitching may also be removed.

C.9.2 MAINTENANCE

Maintenance to the Cross Beams is permitted.

C.9.3 REPAIR

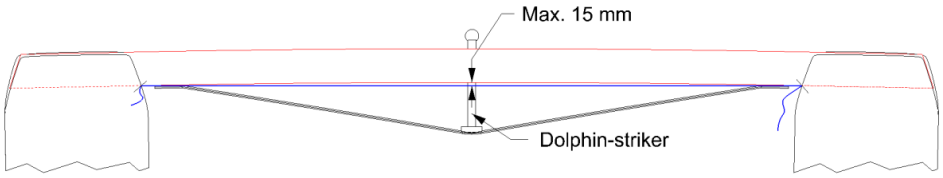
Repairs to the Cross Beams require approval as described in C.6.3.

C.9.4 DIMENSIONS

(a) Front Cross Beam curvature

	Minimum	Maximum
Front Cross Beam Curvature		15 mm

Front Cross Beam Curvature is defined as the greatest distance between:
-the highest point of the underside of the Front Cross Beam,
and;
-a straight line from the port and starboard lower points of the Front 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) The boom outhaul clam cleat CL277 fitting may be removed and the system may be **modified** to a rope only trim system.
(d) Two additional holes may be drilled with a maximum diameter of 8 mm in the **boom** outhaul end.
(e) Tufts or ribbons in the **rigging** are allowed.
(f) A protective cover made only from **sail** cloth and attached by adhesive tape with a maximum size of 300 mm by 350 mm may be fitted over the hounds.
(g) **Fittings** may be replaced with **fittings** of similar size and design.
(h) Plastic pieces or tape may be fitted over the gooseneck to aid the cunningham 8:1 blocks sliding past.

C.10.2 MAINTENANCE

(a) **Maintenance** to the **rig** is permitted.
(i) Any **coating** on the **mast** as part of **maintenance** shall be clear.

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) The 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** lines.

(3) The **trapeze** lines 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 as follows:

i. The **forestay** may be replaced with 4 mm +/- 0.05 mm 1 x 19 stainless steel wire.
ii. The **bowspirit** bridle may be replaced with 2.5 mm +/- 0.1 mm 1 x 19 stainless steel wire and shall be 1475 mm long +/- 5 mm.
iii. The **shrouds** and diamonds may be replaced with 4 mm +/- 0.05 mm 1 x 19 stainless steel wire.
iv. The bridle and bridle fitting may only be replaced with Nacra supplied parts.
v. The **trapeze** lines may be replaced with 2.5 mm +/- 0.2 mm 1 x 19 stainless steel wire or with SK70 (or higher) dyneema with minimum diameter of 3 mm.
vi. The **bowspirit** mid bridle, snuffer ring line and tramp rear and side lacing shall be SK70 (or higher) dyneema or polyester, or a combination, and shall have a minimum diameter of 3 mm.

(2) The stay adjusters of the **forestay** may be replaced by a turnbuckle of the following manufactures:

- Ronstan Calibrated Turnbuckles RF1575 or RF1481-04
- Blue Wave Spanner (Mono race tuning – MRT- Calibrated AISI 316).

(3) The stay adjusters of the **shrouds** may be replaced by a turnbuckle of the following manufactures:

- Sta/Master PAT. 8,281,080
- Ronstan Calibrated Turnbuckles RF 1575 or RF1481-04
- 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 from other manufacturers may be used if pre-approved by the IN17CA Technical Committee in writing.

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

(5) The ring of the Jib Halyard Locking System shall be in the same

position as on the standard **forestay** and of the same size and structural design, with the exception; the ring of the locking system may be fitted to the **forestay** by rope.

(6) Carbon tubes or other similar cylindrical covers of up to 200 mm in length may be used to cover shroud turnbuckles and chainplates.

(b) DIMENSIONS

(1) The forestay length is controlled by laying the **forestay**, including the turnbuckle, along the foreside of the **mast** and measuring the distance from the lower end of the carbon section of the mast to the center of the forestay pin, with end of the **forestay** at the minimum mark in the turnbuckle gauge. The minimum dimension for this shall be 295 mm.

(c) USE

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

(2) The end of the **forestay** shall always be positioned between the minimum mark and the maximum mark in the turnbuckle gauge while *racing.*

C.10.7 SPARE NUMBER

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 22 mm 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) The **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.

(7) The jib downhaul may be run around the **spinnaker pole** and attached to the jib ring.

(8) The jib sheet turning block may be replaced with a block of any diameter sheave.

(b) USE

(1) **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 **modified**.

C.11 SAILS

C.11.1 MODIFICATIONS, MAINTENANCE AND REPAIR

(a) **Repairs** to **sails** require the approval of the N17ICA Technical Committee, with the following exception:

(i) During an event, **repairs** to **sails** only 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 attached to the **mainsail** may be replaced by any blocks with the same number of sheaves and a sheave diameter of 27 mm with a tolerance of ±3 mm.

(2) The application of vinyl, mylar or other plastic film permitted in C.6.1(d) over the surfaces of the **mainsail** shall not cover the window panels in the **sail** or the **batten pockets** on the port side of the **sail** in order to identify the Nacra Identification Stickers

(3) Tape for the purpose of reinforcing the **seams** of the **mainsail** may be applied (but not stitched) on the front half of the **sail** providing:

i. the width of the tape is less than 60 mm and

ii. the tape extends no more than 35 mm from the centre of any **seam**.

For the purpose of this rule, the front half of the **sail** is defined as the area of the **sail** forward of a line through the mid points of the **batten pockets.**

(b) IDENTIFICATION

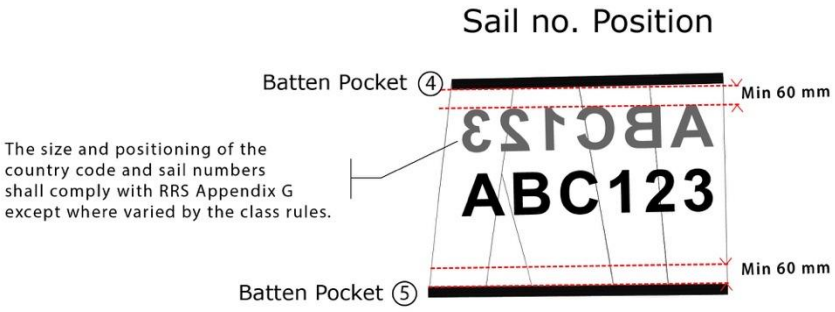
(1) Sail numbers shall be any of the following:

(i) The number shown on the WS Plaque on the **boat**, or on any **boat** still owned by the **crew** members.

(ii) A personal sail number, issued by the IN17CA and renewed on an annual basis, for 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

(iii) The number corresponding to the finish position for **helms** having *raced* at the previous Olympic Games.

(2) The national letters and the sail numbers shall be black in colour and shall comply with RRS Appendix G. RRS G.1.3(a)(2) is changed to permit national letters to be positioned beside the sail number. They shall be applied under **batten pocket** number 4 and above **batten pocket** number 5 and shall be at least 60 mm away from the **batten pockets**,



(3) The area between **batten pocket** number 2 and **batten pocket** number 3 of the **mainsail** shall be kept free of competitor advertising, and shall be reserved for the Class Insignia.

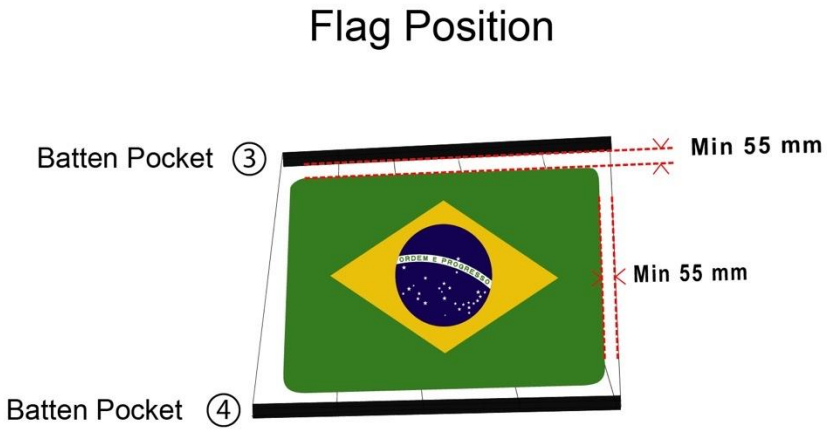
(c) BATTENS

Battens shall only be supplied by a Licensed Manufacturer.

(d) NATIONAL FLAGS

(i) All teams when *racing* in the Nacra 17 World Championships, Continental Championships, Olympic Test Events and Trofeo S.A.R Princess Sofia, SOF Semaine Olympique Francaise de Voile, Kieler Woche, Long Beach Olympic Classes Regatta and the Dutch Water Week events, or when invoked by the NoR, shall display their national flag. The flag shall be placed on the port side of the **mainsail** between **batten pocket** number 3 and **batten pocket** number 4. The national flag shall be at least 55 mm below **batten pocket** number 3 and at least 55 mm from the **leech**. Existing **mainsails** with national flags placed on the starboard side before 1st April 2021 are permitted.

The flag may be retained for *racing* in other events.



(ii) National flags shall only be ordered and purchased through the Licensed Manufacturer and shall not be trimmed or cut.

(iii) The national flag shall be corresponding to the country code displayed in the sail number.

(e) USE

(i) The **mainsail** shall be hoisted on the **halyard**. The arrangement shall permit hoisting and lowering of the **mainsail** whilst afloat.

(ii) Batten numbers 1, 2, 3 and 4 of the **mainsail** may be separately replaced by either hard, medium or soft battens.

C.11.4 JIB

(a) MODIFICATION, MAINTENANCE AND REPAIR.

(i) The application of vinyl, mylar or other plastic film permitted in C.6.1(d) over the surfaces of the jib shall not cover the window panels in the **sail** and the **batten pockets** on the port side of the **sail** in order to identify the Nacra Idetification Stickers on the battens.

(b) USE

(i) The jib shall be hoisted on the **halyard**. The arrangement shall permit hoisting and lowering of the jib whilst afloat.

C.11.5 GENNAKER

(a) MODIFICATION

(i) The gennaker may be painted for graphics.

(b) 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

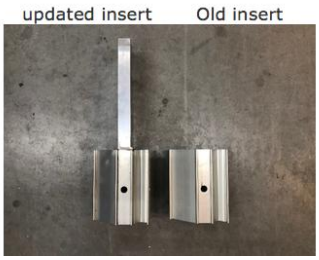
D.2 MODIFICATIONS, MAINTENANCE AND REPAIR

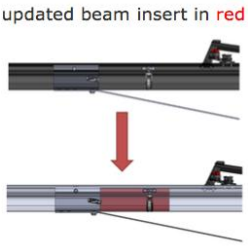
The **modifications** contained in D.2.1(a) to D.2.1(c) may be made by NS, or by anybody after a formal request has been made to NS and written approval is received by the owner. This shall require the Manufacturer's Declaration to be re-issued. The **modifications** contained in D.2.1(d) may be made by anybody.

D.2.1. MODIFICATIONS

(a) Cross Beam reinforcements

Boats with original WS/ISAF plaque number 336 or higher (newer) shall 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) Adjustable Rudder Gudgeon and leading block

The adjustable **rudder** rake system gudgeon and supplied leading block shall be fitted using the supplied template. Either of the original fixed or updated adjustable **rudder** bearings are permitted.

D.2.2. MAINTENANCE

(a)

D.2.3. REPAIR

(a) If any **hull** is damaged and requires **repairs** in any other way than described in Section C then the details shall be recorded on the Manufacturers Declaration.

D.3 MANUFACTURERS

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

D.4 MANUFACTURER MARKS

The Licensed Manufacturer's serial number shall be displayed on the transom of the starboard **hull**.

Items (c),(d) and (e) of section D.1.1 shall carry Nacra Identification Stickers.

D.5 MATERIALS, CONSTRUCTION AND DIMENSIONS

D.5.1 Shall comply with the WS approved Builders Construction Manual.

D.5.2 PAINT

Only **hulls** of boats which are older than 4 years may be painted. Severely damaged boats may be painted but only after a damage report form including pictures has been sent to: measurement@nacra17.org, and written approval by NS has been received by the owner.

Section E – Hull Appendages

E.1 PARTS

E.1.1 MANDATORY

(a) Starboard **Daggerboard**
(b) Port **Daggerboard**
(c) Starboard **Rudder**
(d) Port **Rudder**
(e) Rudder casting including tiller-arm
(f) **Hydrofoils** (rudder elevators)
(g) Tiller-bar
(h) Tiller extension
(i) Top daggerboard bearing
(j) Bottom daggerboard bearing

E.2 MODIFICATIONS, MAINTENANCE AND REPAIR

The **modifications** contained in E.2.1(a) may be made by anybody.

E.2.1 MODIFICATIONS

(a) **Hydrofoils**

All **rudders** shall have the 2021 NS replacement asymmetric **hydrofoil** elevators fitted.

E.3 MANUFACTURERS

The parts of Section E.1, except (h), shall only be manufactured by Licensed Manufacturers.

E.4 MANUFACTURER MARKS

The Licensed Manufacturer's serial number shall be displayed on the **daggerboards** and **rudder** blades.

The **rudder** castings items (e) and (f) shall carry embedded Nacra logos.

The tiller bar item (g) shall carry a Nacra Identification Sticker.

E.5 MATERIALS, CONSTRUCTION AND DIMENSIONS

Shall comply with the WS 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) Gennaker snuffer bag

F.2 MANUFACTURERS

The parts of Section F.1 shall only be manufactured by Licensed Manufacturers.

F.3 MANUFACTURER MARKS

The Licensed Manufacturer's serial number shall be displayed on the **mast** section.

Items (b), (c), (d), (e) and (f) shall carry Nacra Identification Stickers.

F.4 MATERIALS, CONSTRUCTION AND DIMENSIONS

Shall comply with the WS approved Builders Construction Manual.

Section G – Sails

G.1 PARTS

G.1.1 MANDATORY

(a) **Mainsail**

There shall be seven battens numbered from the **head point** of the **sail** down.

(b) Jib

There shall be three battens: Top Jib Batten, Middle Jib Batten and Lower Jib Batten

(c) Gennaker

G.2 MANUFACTURERS

Sails of Section G.1 shall only be manufactured by Licensed Manufacturers.

G.3 MANUFACTURER MARKS

The Licensed Manufacturer's serial number shall be displayed on the **mainsail**, jib and gennaker.

Battens shall carry Nacra Identification Stickers.

Battens are numbered to match a **batten pocket** in the **sail**.

G.4 MATERIALS, CONSTRUCTION AND DIMENSIONS

Shall comply with the WS 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:

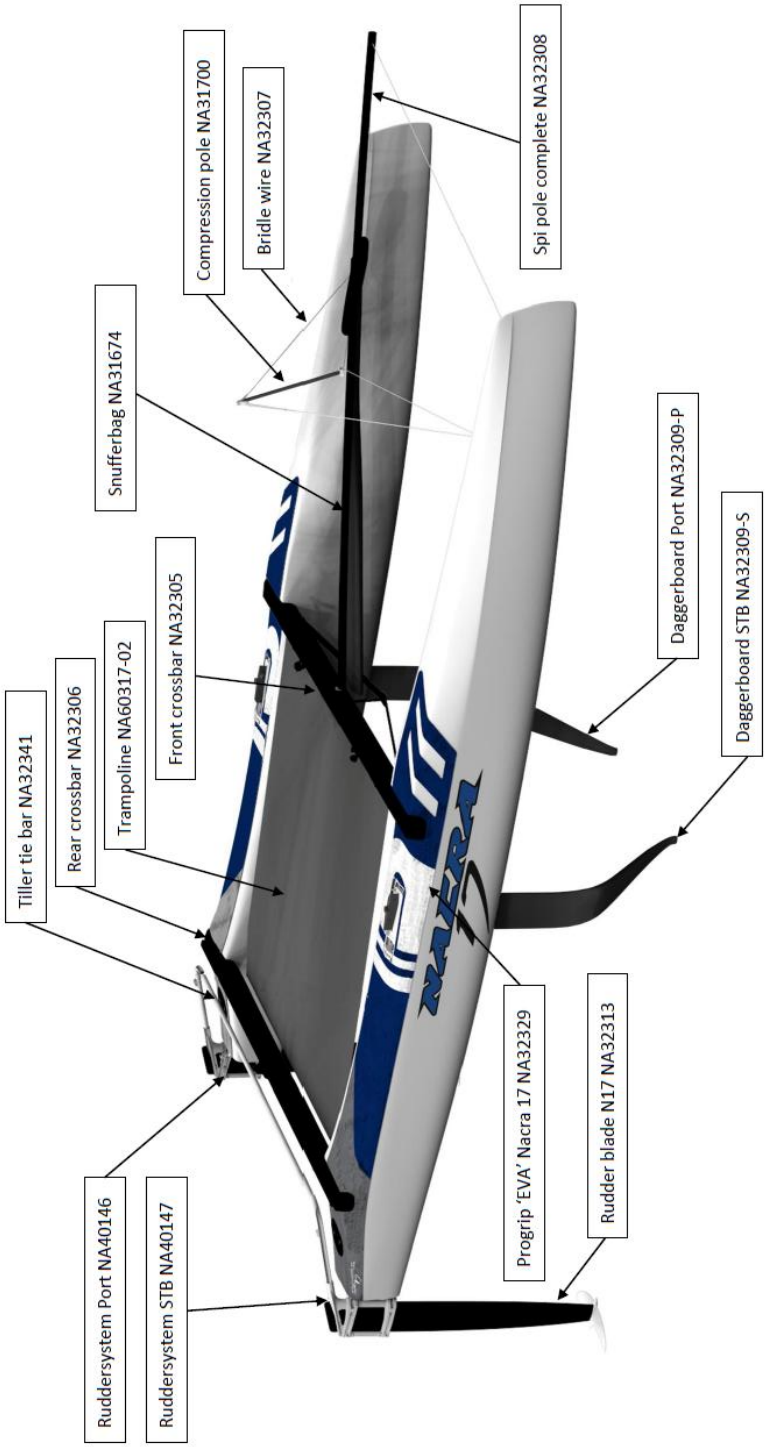
Qty	Component	Associated Hardware	Iden. Sticker	Ident. Nr.	Options or tolerances
					(Where no comment as per class rules)
2	**Hull**		Required	Yes	Licensed Manufacturer
2		Mast rotation Cam-matic HK469			
2		Gennaker HK2135 57 mm			±3mm diam. sheave
1	**Front Cross Beam**		Required	No	Licensed Manufacturer
2		Gennaker sheet HK2636 40 mm			See C.6.1 (g) (3)
1		Tackline cheek HK233 22 mm			±3 mm diam. sheave
2		Jib cunningham/ HK415 16 mm			±3 mm diam. sheave
1		Tack line cam-matic HK468			
2		ClamCleat Jib cunningham CL268			
1		Tack line 16 mm single HK442			±3 mm diam. sheave
2		Jib sheet swivel base HK462 or 9051			
1		Jib track Car HK2700			
1		Jib track			Licensed Manufacturer
1	**Rear Cross Beam**		Required	No	Licensed Manufacturer
1		Traveler track car HK2765			
1		Swivel base HK639NP			
4		29mm bullet sheave H160			
2		Chicken line shockcord blocks			16 mm sheave +/- 4 mm diam. sheave
1	**Mast**		Required	Yes	Licensed Manufacturer
2		Cunningham sheave micro HK277			±3 mm diam. sheave
1		Cunningham single HK348			±3 mm diam. sheave
2		Cunningham Pivoting H395 or Spinlock PXR0206/VP			±3 mm diam. sheave
1		Gennaker Halyard Pivoting H2156			
2		Clamcleat cunningham CL211			
1		Mast rotation cam-matic HK469			
1		Eye-strap 16 mm single HK442			±3 mm diam. sheave
1	**Spreaders (6 components)**		Required	No	Licensed Manufacturer
1	**Boom**		Required	No	Licensed Manufacturer
1		Clamcleat Outhaul CL277			May be removed according to C.10.1 (c)
1		Boom Gooseneck U-fitting			Licensed Manufacturer
1	**Compression Post**		Required	No	Licensed Manufacturer
1	**Trampoline**		Required	Yes	Licensed Manufacturer
2		Gennaker Haylard guiders HK348			Open
1	**Bowsprit**		Required	No	Licensed Manufacturer
1		Snuffer ring			Licensed Manufacturer
1		Tackline stand-up HK349			±3 mm diam. sheeve
1		Clamcleat jib carline CL211			
1		Jib sheet cheek block HK416			±3 mm diam. sheave
1		Jib cunningham cheek block HK416			±3 mm diam. sheave
1	**Gennaker snuffer bag**		Required	Yes	Licensed Manufacturer
2	**Daggerboard**		Required	Yes	Licensed Manufacturer
2	**Rudderboard**		Required	Yes	Licensed Manufacturer
2	**Rudder system**		none	no	Licensed Manufacturer
1	**Tiller-bar**		Required	No	Licensed Manufacturer
1	**Tiller extension**		None		
1	**Mainsail**		Required	Yes	Licensed Manufacturer
		Light batten set (top 4 battens)	Required	No	Licensed Manufacturer
		Medium batten complete set	Required	No	Licensed Manufacturer
		Heavy batten set (top 4 battens)	Required	No	Licensed Manufacturer
1	**Jib**		Required	Yes	Licensed Manufacturer
		Standard batten set	Required	No	Licensed Manufacturer
1	**Gennaker**		Required	Yes	Licensed Manufacturer

Section I: RIGGING LIST

Running Rigging	Size			Associated Hardware/material	*Remark/tolerances*
	Qty	*length*	*diam.*		
		mm	mm		*(Where no comment as per class rules)*
Mainsheet with split tail 1:10	**1**			HC GP 2800	
	1			HC 8454	±3 mm diam. sheave
	1			HC 7668	±3 mm diam. sheave
Mainsheet with spli ttail 1:12	**1**			HC GP 2800	
(optional)	1			HC 8454	±3 mm diam. sheave
	1			HC 7668 + HC2650	±3 mm diam. sheave
Gennaker Halyard core+cover	**1**				
Main Halyard	**1**		5		±0.5 mm diam.
	1			Ring w/shackle	Licensed Manufacturer
Jib Halyard	**1**				
	1			S-hook jib	Licensed Manufacturer
Gennaker Sheet	**1**				
Gennaker Tackline	**1**				
	1			HK 348 29 mm	
Main Downhaul purchase 1:8					
	2			HK 406 double 16 mm	±3 mm diam. sheave
Main Downhaul purchase 1:2	**2**				
Jib downhaul 1:2	**1**				
Gennaker block line	**1**				
	1			HK 348 29 mm	±3 mm diam. sheave
Gennaker Bale	**1**				
Rotation line	**1**				
	1			Ring max. diameter 30 mm	±5 mm inside diam.
Gennaker tack release	**1**				
	1			Ring max. diameter 30 mm	±5 mm inside diam.
Hiking strap tie	**3**				
Righting line	**1**	4500			As per C.6.1 (e)
Gennaker clew take down line	**1**				
	1			HK 348 29 mm	±3 mm diam. Sheave
Gennaker block shockcord	**2**			Shockcord	
Gennaker tack shockcord	1			Shockcord	
Front Cross Beam rigging					
Jibsheet trim 1:2	**1**				
	1			HK 348 29 mm	±3 mm diam. sheave
(optional)	2			HK 348 29 mm *(to lead Jibsheet backwards over deck)*	±3 mm diam. sheave
Jib and Cunningham retraction system	2			HK 406 16 mm double	±3 mm diam. sheave
(optional for continues)	2			HK 224 22 mm *(running-block)*	±3 mm diam. sheave - C.9.1 (a)
Shockcord block line	**2**				
Retraction shockcord	**2**			Shockcord	
Trapeze shockcord	**1**			Shockcord	
Jib downhaul trim 1:2	**1**			**-**	**-**

	1			HK 404 16 mm		±3 mm diam. sheave
Rear Cross Beam rigging						
	2			HK 404 16 mm		±3 mm diam. sheave
Retraction shockcord	**1**					*Optional*
Shockcord block tie rope	**2**					*Optional*

Section J: HULL DRAWINGS



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