

RIO 2016 OLYMPIC SAILING COMPETITION EQUIPMENT REGULATIONS

Amended on 12 August 2016

1. GENERAL

- 1.1. All boats and equipment entered for the Rio 2016 Olympic Sailing Competition shall be inspected in accordance with the relevant rules including Class Rules, Notice of Race (NoR), Sailing Instructions (SI) and Equipment Regulations (ER), defined collectively as the Event Equipment Rules.
- 1.2. The Equipment Inspection Committee (EIC) shall be the final authority for determining if equipment complies with the Event Equipment Rules and for interpreting the Class Rules during the Regatta.
- 1.3. Only entered competition boats may be kept in the boat park unless an exemption is permitted by the Organising Authority.
- 1.4. Boats shall be kept in their assigned places in the boat park. After a boat or equipment has completed the pre-race equipment inspection, it shall remain in the Sailing Venue or the Exclusion Zone but shall not be taken to the container park, except with the written permission of the EIC.
- 1.5. After an Organising Authority supplied boat or equipment has been issued, it shall remain in the Sailing Venue or Exclusion Zone but shall not be taken to the container park, except with the written permission of the EIC.
- 1.6. Each boat is required to comply with RRS 78.1 and Event Equipment Rules from the time of being presented for equipment inspection onwards unless otherwise approved by the EIC. In accordance with the SIs, non-compliance may be protested and penalized as if it were discovered after racing.
- 1.7. In accordance with RRS 78.1, athletes are responsible for ensuring that their boat is maintained in accordance with the Class Rules and that the measurement certificate, where applicable, remains valid.
- 1.8. All equipment and sails shall be certified and marked as required by the Class Rules from the time of being presented for equipment inspection onwards.
- 1.9. For Finn and 470, athletes shall present, or verify the existence of valid certification documentation for their boat in accordance with NoR 14.2. For the Finn, the certification documentation includes the hull Measurement Form, the hull Certificate with any Reweighing Form and the mast card(s). For the 470, the certification documentation shall include the hull Measurement Form and the hull Measurement Certificate. The certification documentation may be retained by the EIC for the duration of the event. If any document is a photocopy, its authenticity shall be confirmed with an original stamp and signature from the issuing authority, from the class database or by a scanned document emailed from the issuing authority directly to the Organizing Authority.
- 1.10. Any changes to these ER will be posted after approval on the Official Noticeboard in accordance with the provisions governing the posting of changes to the Sailing Instructions (SIs).

2. EQUIPMENT LIMITATION

- 2.1. All items of equipment subject to event limitation control shall be marked with the official event limitation marks. If a mark becomes unclear, insecure or lost, this shall be reported to the EIC so that the mark will be replaced at the first reasonable opportunity before the next race

3. REPAIR AND REPLACEMENT OF BOATS AND EQUIPMENT

- 3.1. Repairs or replacements shall not be made after completion of Equipment Inspection without the prior written approval of the EIC. However, repairs or replacements required afloat may be approved after the race, provided that either the Race Committee or the EIC are notified before the next race.
- 3.2. Equipment subject to inspection shall only be replaced if:
(a) The replacement is certified if required by the Class Rules before use, and
(b) The equipment being replaced has either been lost or severely damaged and cannot be repaired in the time available before the next race.
Equipment shall not be replaced if it has been mistreated, damaged or lost in a deliberate manner.
- 3.3. Unless approved in writing by an EIC member, repairs shall not be carried out in the equipment inspection areas.
- 3.4. Repair / replacement request forms will be available from the EIC Office.
- 3.5. Any item that has been repaired or replaced in accordance with section 3 of the Equipment Regulations shall have the appropriate event limitation marks, Look of the Games and national flags applied.
- 3.6. Spare spinnakers/gennakers provided by the athletes will be carried afloat in an EIC boat. In the event of the first spinnaker/gennaker being damaged and replacement approved in accordance with ER 3.2, the spare spinnaker/gennaker may be retrieved and used for any further races on that day. The spare spinnaker/gennaker shall be returned to the EIC after the last race of the day. If repairable, the first spinnaker/gennaker shall be used for all subsequent races after the repair.
- 3.7. Athletes shall report any loss or damage of supplied equipment to the EIC as soon as reasonably possible. Repairs to supplied equipment shall only be carried out by Organising Authority representatives.
- 3.8. Any RS:X fin, mast or mast extension that is brought by the athlete in accordance with NoR Appendix 4 and ER 7.6 which is lost, damaged or fails to pass equipment inspection shall be replaced only with equipment supplied by the Organising Authority.
- 3.9. Only one set of items of equipment that are to be inspected or controlled shall be presented for pre-race equipment inspection by an entry in each Event. However, the EIC may permit the substitution of a first item of equipment in the following cases:
- an item of equipment that fails to comply with the Event Equipment Rules in a serious matter like shape or construction that is a manufacturing defect; or
 - an item of equipment which is too light and which cannot be made to comply with the Class Rules.

4. EQUIPMENT INSPECTION

- 4.1. Pre-race equipment inspection for each Event will take place in accordance with the competition schedule in the NoR. It shall be completed by 18:00 on the day before the first race for that Event, unless extended by the EIC. Any schedule changes authorised by the EIC will be published on the Official Noticeboard. Boats and equipment shall be presented at the designated time in accordance with the boat-specific requirements sections 7 to 12 of the ER.
- 4.2. Boats and equipment shall be presented for equipment inspection in a dry, clean and salt-free condition. All equipment shall have event limitation stickers from previous events removed. Any item that is not in a condition to the satisfaction of the EIC may be held by the EIC for up to 48 hours
- 4.3. All boats shall be presented for inspection with all equipment as required or permitted by the Class Rules, including sails, personal flotation device(s), trapeze harness(es) where applicable and any electronic personal equipment items.
- 4.4. Personal flotation device(s) shall comply with the respective Class Rules. Where not specified in the Class Rules, personal flotation devices shall be in compliance with EN 393 or ISO 12402-5, level 50 or an equivalent standard. Inflatable Personal Flotation Devices are not permitted.
- 4.5. Personal equipment that includes timing and/or electronic devices with functions in addition to boat heading and timing is not permitted unless otherwise specified in the personal equipment section of the respective Class Rules or Event Equipment Rules.
- 4.6. All mainsails and jibs shall be presented in accordance with NoR 3.2; however mainsails shall have the Class insignia as required by the class rules.
- 4.7. For 470, 49er, 49erFX and Nacra17, a spare spinnaker/gennaker may be inspected and placed in the custody of the EIC. A spare spinnaker/gennaker shall comply with the requirements of ER 10.5, ER 10.6, ER 11.4 and ER 12.3 as applicable.
- 4.8. At least one athlete and/or **one or two** support team members shall be present at all times during equipment inspection. An interpreter may also be present when needed, if approved by the EIC.
- 4.9. After any race, a boat may be informed by an EIC member that it has been selected for post-race inspection. When hailed, the boat shall move directly to the indicated area at the race area or at the Sailing Venue.
- 4.10. When a boat has been informed that it has been selected for post-race inspection, no person shall join or leave the boat without permission from the EIC. No equipment or other item shall be taken on or off the boat without permission from the EIC. The notified athletes shall not leave the equipment inspection area without the permission of the EIC. After inspection of the athlete clothing and equipment, at least one athlete or support team member shall remain present during the inspection of the boat. The EIC may require the boat to be quarantined in order to dry out before its weight is checked.

5. MEDAL RACE QUARANTINE PROCEDURES

- 5.1. On completion of the opening series, the boats assigned to compete in the Medal Race for each Event will be quarantined and subject to equipment inspection.
- 5.2. Boats will be held in the Medal Race Quarantine Area as follows:

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| (a) Laser Standard | Flamengo Beach |
| (b) Laser Radial | Flamengo Beach |
| (c) RSX Men | Flamengo Beach Tent |
| (d) RSX Women | Flamengo Beach Tent |
| (e) 470 Men | Flamengo Beach |
| (f) 470 Women | Flamengo Beach |
| (g) 49er | Flamengo Beach |
| (h) 49erFX | Flamengo Beach |
| (i) Nacra17 | Flamengo Beach Ramp |
| (j) Finn | Flamengo Beach |

- 5.3. The location of the Quarantine Area for each Event's boats will be posted on the Official Noticeboard by 16:00 on the day before the Medal Race.
- 5.4. Boats and their equipment assigned to the Medal Race shall be placed in the Quarantine Area by the later of:
- 18:00 on the day before the Medal Race;
 - if racing is held on the day before, 30 minutes after the expiry of the protest time limit;
 - if racing is held on the day before, two hours after the decision is made that there will be no more racing that day; or
 - if a boat is assigned to the Medal Race as a result of a protest or request for redress, as soon as practicable following that decision.
- 5.5. If a boat may qualify for the Medal Race as the result of a protest or request for redress, the EIC may direct that the boat is to enter quarantine and comply with ER 5.
- 5.6. For Medal Race quarantine, sails and other controlled equipment shall either be kept with the boat or stored in the Quarantine Area. No person shall access the equipment, and equipment or other items shall not be taken on or off the boat without written permission from the EIC.
- 5.7. If a boat or equipment needs repairs either inside or outside the Quarantine Area, a request may be made in writing to the EIC.
- 5.8. On the day of the Medal Race, boats shall be presented in accordance with **ER 4** for equipment inspection three hours before the start time of their race, unless otherwise instructed by the EIC.
- 5.9. Boats shall not leave the Quarantine Area before being signalled by the Race Committee to go afloat.
- 5.10. If a Medal Race is postponed or abandoned such that the boats return to shore, the boats shall return to and remain in the quarantine area. If a Medal Race is postponed or abandoned to the following day the Quarantine procedure outlined in ER 5.4, 5.5, 5.6 and 5.7 shall be repeated.

6. CAMERAS AND TRACKING EQUIPMENT

- 6.1. Boats shall carry Organising Authority equipment in accordance with NoR 20.
- 6.2. For the purpose of avoiding entanglement with running rigging and sails; rope, elastic and adhesive tape may be attached to Organising Authority equipment mounts and brackets provided that it does not interfere with the operation or field of view of the associated Organising Authority equipment (e.g. cameras and tracking equipment).

BOAT SPECIFIC REQUIREMENTS

7. MEN AND WOMEN'S WINDSURFER – RS:X

- 7.1. RS:Xs will be allocated by a draw in accordance with NoR 13.
- 7.2. RS:Xs will be supplied with the equipment listed below by the Organising Authority for use during the Sailing Competition:
- hull, centreboard, fin, centreboard cover;
 - lower mast, top mast and mast extension;
 - boom including fittings;
 - sail complete with three-letter NOC code, look of the Games, battens and camber inducers; and
 - foot straps.
- 7.3. Only the Organising Authority supplied and identified equipment listed in ER 7.2 shall be used during the Sailing Competition unless listed in ER 7.5, ER 7.6 or otherwise permitted by the Class Rules.
- 7.4. Equipment limitations as specified in NoR Appendix 4 shall apply.
- 7.5. For athletes bringing their own fin, mast or boom in accordance with NoR Appendix 4, the serial number of each piece of equipment they intend to use shall be declared and entered on the RS:X Equipment Inspection Form at the time of collecting the supplied equipment (see NoR 13).
- 7.6. The following equipment, control lines and control line blocks may be supplied by athletes provided they conform to the Class Rules:
- uphaul line;
 - a safety line or device to secure the rig to the hull;
 - downhaul system – see Class Rule C.8.3(e);
 - outhaul system – see Class Rule C.8.3(f); and
 - harness lines.
- Equipment listed in NoR Appendix 4
These items will be subject to inspection and identification at equipment inspection.
- 7.7. No alterations shall be made to any part of the boat, its equipment, spars or fittings, or fittings removed, even if subsequently replaced, without the written approval of the EIC, except for those fittings and items of equipment defined in NoR Appendix 4 and ER 7.6 that athletes may bring and use.

- 7.8. Unless permitted in writing by the EIC, the hull, sail, mast and boom, centreboard and fin may be washed with soap and water and wiped down manually. No polishing, reshaping or sanding of any supplied equipment shall be permitted.
- 7.9. Tell-tales may be fitted to the sail provided that they do not pierce or permanently mark the sail. No other additional fittings will be permitted without prior approval from the EIC.
- 7.10. The following Class Rules shall not apply to supplied equipment:
- C.6.3 (a) and (d);
 - C.6.4 (g) and (h);
 - C.7.2 (a);
 - C.7.3 (b);
 - C.8.3 (g) and (j);
 - C.9.4 (f); and
 - C.9.5 (b).
- 7.11. On completion of the Sailing Competition, all equipment supplied to athletes shall be returned to the Organising Authority in accordance with instructions that will be posted on the Official Noticeboard.

8. MEN AND WOMEN'S ONE PERSON DINGHY – LASER AND LASER RADIAL

- 8.1. Lasers and Laser Radials will be allocated by a draw in accordance with NoR 13.
- 8.2. Lasers and Laser Radials will be supplied with the equipment listed below by the Organising Authority for use during the Sailing Competition:
- hull, with bailer fixed;
 - centreboard, complete with stopper (holes for a rope handle may be drilled by Organising Authority representatives on request);
 - rudder;
 - lower mast and top mast;
 - boom, complete with all fittings attached;
 - sail, complete with three-letter NOC code, look of the Games and battens;
 - padded toe strap, shock cord and toe-strap line, fitted;
 - mainsheet side cleats (fitted by the Organising Authority representatives on request);
 - deck block fitting without blocks;
 - deck cleat base with two cleats; and
 - launching trolley.
- 8.3. Only the Organising Authority supplied and identified equipment listed in ER 8.2 shall be used during the Sailing Competition unless listed in ER 8.4 or otherwise permitted by the Class Rules.
- 8.4. The following equipment, control lines and control line blocks may be supplied by athletes provided they conform to the Class Rules:
- control lines and control line blocks;
 - mainsheet block spring, ball, plastic tube or tape (If required);
 - mainsheet deck cam cleats with maximum fastener spacing of 38mm
 - boom vang and traveller blocks;
 - tiller and tiller extension;
 - centreboard rope handle; and

- toe-strap, shock cord and line
These items will be subject to inspection and identification at equipment inspection.
- 8.5. Each boat shall be presented with the bottom mast, boom and all control lines rigged and with the sail and top section de-rigged and ready for inspection.
 - 8.6. No alterations shall be made to any part of the boat, its equipment, spars or fittings, or fittings removed, even if subsequently replaced, without the written approval of the EIC, except for those fittings and items of equipment defined in ER 8.4 that athletes may bring and use. Athlete supplied toe straps and mainsheet deck cam cleats shall only be fitted by the OA.
 - 8.7. Unless permitted by the EIC, the hull, sail, mast and boom, centreboard and rudder may be washed with soap and water and wiped down manually. No polishing, reshaping or sanding of the centreboard, rudder or any portion of the hull is permitted. This amends class rules 11(a), 14(b) and 15(a).
 - 8.8. Athletes may adjust the centreboard friction pad and use adhesive tape according to the Class Rules.
 - 8.9. Wind indicators, a timing device, a compass and containers for food and drink may be carried on board in accordance with the Class Rules. These items may only be attached to the boat with rope, shock cord or adhesive tape. Tell-tales may be fitted to the sail provided that they do not pierce or permanently mark the sail. No other additional fittings will be permitted without prior approval from the EIC. Personal flotation devices shall be presented.
 - 8.10. The following Class Rules shall not apply: Part One: Hull Identification.
 - 8.11. On completion of the Sailing Competition, all equipment supplied to athletes shall be returned to the Organising Authority in accordance with instructions that will be posted on the Official Noticeboard.
- 9. MEN'S ONE PERSON DINGHY (HEAVYWEIGHT) – FINN**
- 9.1. Each boat shall be presented for equipment inspection with the mast down. All inspection hatches and covers shall be open.
 - 9.2. No more than one centreboard, two masts, two booms, two rudders and two mainsails shall be presented for pre-race equipment inspection.
 - 9.3. Each boat shall be presented for pre-race equipment inspection with her certification documentation as in ER 1.9.
- 10. MEN AND WOMEN'S TWO PERSON DINGHY – 470**
- 10.1. Each boat shall be presented for equipment inspection with the mast down, main, jib and spinnaker sheets and centreboard and rudder blade removed from hull. All side-tank inspection hatches and at least one of the forward tank bulkhead covers shall be open. All hull corrector weights shall be removed and presented separately.
 - 10.2. Each boat shall be presented for pre-race equipment inspection with her certification documentation as in ER 1.9.
 - 10.3. Equipment limitations as specified in NoR Appendix 4 shall apply.

- 10.4. The number of sails and spars which may be approved during pre-race inspection of the boat shall not exceed one mast, one boom, one spinnaker pole, one mainsail, one jib, one spinnaker and one spare spinnaker in accordance with ER 10.5 and ER 10.6
- 10.5. Each 470 spinnaker shall carry the national flag of the athletes displayed in dense contrasting colours on the forward face of the spinnaker. The flag shall be located approximately equidistant from the leeches. The body of the sail shall be constructed of white sail material. A black border of a minimum width of 10mm shall be applied to the edges of the flag. The flag dimensions, including the border, shall be as follows:

Flag dimensions	Minimum	Maximum
Width	2400 mm	2600 mm
Height	1400 mm	1600 mm
Distance from the foot of sail to base of flag	1500 mm	1800 mm

- 10.6. The three-letter NOC code shall be placed horizontally 225 mm \pm 25mm below the bottom edge of the spinnaker national flag and on the forward face of the sail only. The height of the letters shall be 400 mm \pm 10mm and the minimum space between letters shall be 80mm. This changes RRS G1.2(b). The colour of the letters shall be black.

11. MEN AND WOMEN'S SKIFF – 49ER, 49ERFX

- 11.1. Each boat shall be presented for equipment inspection with the mast down. The mast shall have all standing and running rigging pulled tight and tied to the mast and all loose ends secured.
- 11.2. Equipment limitations as detailed in NoR Appendix 4 shall apply.
- 11.3. The number of sails and spars which may be approved during inspection of the boat shall not exceed one mast, one boom, one bowsprit, one mainsail, one jib, one gennaker and one spare gennaker in accordance with ER 11.4.
- 11.4. The gennaker shall be manufactured by the approved manufacturer with a representation of the relevant national flag. In alteration to Class Rule C.10.4(a), the gennaker may have graphics which extend to any point of the sail.

12. MIXED MULTIHULL – NACRA17

- 12.1. Each boat shall be presented for equipment inspection with the mast down. The mast shall have all standing and running rigging pulled tight and tied to the mast and all loose ends secured. All inspection hatches shall be open.
- 12.2. The number of sails and spars which may be approved during inspection of the boat shall not exceed one mast, one boom, one bowsprit, one mainsail, one jib, one gennaker and one spare gennaker in accordance with ER 12.3.
- 12.3. The gennaker shall be manufactured by the approved manufacturer with a representation of the relevant national flag.