



Tokyo 2020 Olympic Sailing

Equipment Regulations

18 November 2020

1. General

- 1.1. All boats and equipment entered for the Tokyo 2020 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 Technical Committee (TC) is responsible for all equipment inspection functions. The Chair of the TC may appoint one or more panels or persons to carry out the functions of the Technical Committee. The TC is the 'responsible authority' for the purposes of RRS 64.4(b) and it shall be the authority for determining if equipment complies with the Event Equipment Rules and for interpreting the Class Rules during the Tokyo 2020 Olympic Sailing Competition.
- 1.3. Only entered competition boats and equipment may be kept in the boat park, except with prior written permission of the TC.
- 1.4. After a boat or equipment has completed its pre-event equipment inspection (as in ER Addendum B), it shall be kept in its assigned place in the boat park as per Addendum A, with the following exceptions:
 - if required to undertake approved repairs and maintenance,
 - to get to the launching ramp after Delta flag is displayed either over an event flag for those racing or over Flag T for those training,
 - or to return to the assigned place after racing or training.

When required for maintenance and to rig the boat, the boat may be moved within approximately 10 metres of the assigned place. A boat or equipment shall not be taken to the container park, except with prior written permission of the TC for repairs. This rule does not apply for **portable** and **personal equipment** as defined in the Equipment Rules of Sailing (ERS).

- 1.5. After an Organising Authority (OA) supplied boat or equipment has been issued, it shall remain in the Sailing Venue or Field of Play but shall not be taken to the container park, except with prior written permission of the TC.
- 1.6. Each boat is required to comply with RRS 78.1 and the Event Equipment Rules from the time of its pre-event equipment inspection onwards unless otherwise approved by the TC. In accordance with the Equipment Inspection Policies, non-compliance may be protested and penalized as if it was discovered after racing.
- 1.7. The athletes shall be considered 'owners' and 'persons in charge' for the purpose of RRS 78.1.
- 1.8. All equipment and sails shall be certified and marked as required by the Class Rules from the time of being presented for pre-event equipment inspection onwards.
- 1.9. For Finn and 470, athletes shall present valid hardcopy certification documentation for their boat. 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 TC 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 Organising Authority.
- 1.10. Any changes to these ER will be posted on the Official Notice Board in accordance with the Sailing Instructions.

2. Equipment Limitation Marking

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

3. Repair and Replacement of Boats and Equipment

- 3.1. Unless otherwise stated in ER 3.9 and ER 3.10, all repairs and replacements after completion of pre-event equipment inspection shall require prior written approval of the TC.
- 3.2. Any loss or damage of supplied equipment shall be reported to the TC as soon as possible. Repairs to supplied equipment shall only be carried out by Organising Authority representatives.
- 3.3. Equipment Repair / replacement request forms will be available at the TC Office.
- 3.4. Unless approved in writing in advance by a TC member, repairs shall not be carried out in the equipment inspection areas.
- 3.5. No equipment shall be replaced or repaired ashore without prior written approval of the TC.
- 3.6. Equipment shall not be replaced if it can be repaired in the time available before the next race.
- 3.7. Equipment shall not be replaced unless it is either lost or severely damaged and has not been mistreated, damaged or lost in a deliberate manner.
- 3.8. Replacement parts shall comply with the rules, carry all required identification and be certified if required by the class rules.
- 3.9. Repairs or replacements required afloat shall be notified to the TC prior to the start of the next race. If there is no time to notify the TC prior to the start of the race, the repair or replacement shall be notified to the Race Committee or a member of the Jury prior to the start of the next race.
- 3.10. Any repairs and/or replacements carried afloat shall be reported ashore in writing to the TC within the protest time limit and both the replacement part and replaced equipment shall be presented to verify compliance with ER 3.6, 3.7, 3.8 and for approval under ER 3.1.
- 3.11. Replacement parts, and any item that has been repaired, shall carry event limitation marks, Look of the Games and national flags, as required. Replacing event limitation marks, Look of the Games and national flags are to be applied as soon as practicable.
- 3.12. Approval of a replacement may be either permanent and affect all following races or temporary and be limited to a number of races while the replaced equipment is being repaired.
- 3.13. The re-use of replaced equipment subsequently being repaired shall require prior written approval of the TC. The re-use of equipment replaced afloat and subsequently repaired before the end of the day shall comply with ER 3.9 and 3.10
- 3.14. For 470, 49er, 49erFX and Nacra17, a second spinnaker/gennaker may be presented for pre-event inspection and then placed in the custody of the TC as spare. Spare spinnakers/gennakers shall comply with the requirements of ER 10.5, ER 10.6, ER 11.4 and ER 12.4 as applicable. The spare spinnaker will be carried afloat in the respective Event's TC vessel. In the event of the first spinnaker being damaged and replacement approved in accordance with ER 3.8, the spare spinnaker may be retrieved with the authority of the TC and used for any further races on that day. The spare spinnaker/gennakers shall be returned to the TC after the last race of the day and if repairable, the first spinnaker shall be repaired for all subsequent races in compliance with ER 3.13

4. Equipment Inspection

- 4.1. Pre-event equipment inspection for each Event will take place in accordance with the schedule in NoR 7.1 and Appendix 1, and the class-specific timetables in ER Addendum B. It shall be completed by 18:00 on the day before the first race for that Event, unless extended by the TC. Any schedule changes authorised by the TC will be published on the Official Notice Board. 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 all event limitation stickers from previous events removed. Any item that is not in a condition to the satisfaction of the TC may be held by the TC for up to 48 hours.
- 4.3. All boats shall be presented for pre-event equipment inspection with all equipment as required or permitted by the Class Rules, including sails, personal flotation device(s), helmets, trapeze harness(es) where applicable and any electronic personal equipment items like watches etc.
- 4.4. Only one set of items of equipment that are to be inspected or controlled, shall be presented for pre-event equipment inspection by an entry in each Event. However, the TC may permit the substitution of a first item of equipment in the following cases:
 - i. 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
 - ii. an item of equipment which is too light and which cannot be made to comply with the Class Rules using the maximum permitted amount of corrector weights.
- 4.5. Personal flotation device(s) shall comply with the respective Class Rules and their size shall be appropriate for the body type and size of the user. 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.
- 4.6. Mainsails shall have the Class insignia as required by the class rules. All mainsails and jibs shall be presented in accordance with NoR 3.1.
- 4.7. At least one athlete and/or a maximum of 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 TC.
- 4.8. At any time during the racing days, a boat may be informed by a TC member that it has been selected for equipment inspection. When so informed, the boat shall move directly as instructed to the indicated area at the race area or at the Sailing Venue.
- 4.9. When a boat has been informed that it has been selected for inspection as per ER 4.8, no person shall join or leave the boat without permission from the TC. No equipment or other item shall be taken on or off the boat without permission from the TC. The notified athletes shall not leave the equipment inspection area without the permission of the TC. After inspection of the athlete clothing and/or equipment, at least one crew member or support team member shall remain present during the inspection of the boat. The TC may require the boat to be quarantined in order to perform the requested inspections.

5. [SP] Medal Race Procedures

- 5.1. On completion of the opening series, boats qualified for the Medal Race shall be available for inspection at the quarantine / pit lane area. A penalty given under this ER shall not be grounds for a boat to request redress. This changes RRS 62.1(a).

- 5.2. Boats shall be taken into the quarantine area between 16:00 and 18:00 local time on the day before their scheduled Medal race. Access to the quarantine area shall be prohibited between 18:00 local time on the day before a scheduled Medal Race and 20 minutes before the scheduled start of equipment inspection on the day of that Medal Race except for repairs authorized in advance by the TC in writing. The location of the quarantine / Pit Lane Area for each Event's boats is shown in ER Addendum A.
- 5.3. On the day of the Medal Race, boats shall be presented in accordance with ER 4.3 for equipment inspection two hours before the start time of their race, unless otherwise instructed by the TC. This includes boats that may qualify for the Medal Race following a protest or request for redress.
- 5.4. Boats shall not leave the Pit Lane Area before being signalled by the Race Committee to go afloat.
- 5.5. If a Medal Race is postponed or abandoned such that the boats return to shore, the boats shall return to and remain in the Pit Lane Area. If a Medal Race is postponed or abandoned for the next day the procedure outlined in ER 5.2, 5.3 and 5.4 shall be repeated.

6. Onboard Equipment Provided by the OA

- 6.1. Boats shall carry equipment provided and installed by the Organising Authority in accordance with NoR 3 and ER Addendum C.
- 6.2. For the purpose of avoiding entanglement with running rigging and sails, only 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 onboard equipment.

Boat Specific Requirements

7. Men and Women's Windsurfer – RS:X

- 7.1. Equipment limitations as detailed in NoR Appendix 4 shall apply.
- 7.2. Each board shall be presented with fin and foot straps removed and only with the following fittings and the attachments associated to these and to the centreboard: the complete mast track, centreboard support plates, gasket assembly and air ventilation screw. The sail shall be with battens removed and the top and bottom mast sections shall be separated.

8. Men and Women's One Person Dinghy – Laser and Laser Radial

- 8.1. Lasers and Laser Radials will be allocated by a draw supervised by World Sailing (WS).
- 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 (aluminium) and top mast (carbon);
 - 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;

- 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);
 - 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, with the sail and top section de-rigged, tiller with tiller extension separate from the rudder head and the Personal Flotation Device.
- 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 prior written approval of the TC, except for those fittings and items of equipment defined in ER 8.4 that athletes may bring and use. Athlete-supplied toe straps shall only be fitted by the OA.
- 8.7. Unless approved in writing in advance by the TC, the hull, sail, mast and boom, centreboard and rudder may be washed with soap and water only and wiped down manually. No polishing, reshaping or sanding of the centreboard, rudder or any portion of the hull is permitted.
- 8.8. Athletes may adjust the centreboard friction pad.
- 8.9. Athletes may use adhesive tape according to the Class Rules.
- 8.10. 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 they do not pierce or permanently mark the sail. No other additional fittings will be permitted without prior written approval from the TC.
- 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, one mast, one boom, one rudder and two mainsails shall be presented for pre-event equipment inspection.
- 9.3. Each boat shall be presented for pre-event 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 blades 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-event 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-event 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 minimum thickness 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 approximately 200mm 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. Class Rule amendments and limitations shall apply as detailed in NoR Appendix 4.
- 11.2. 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.
- 11.3. 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. Each gennaker shall be manufactured by the approved manufacturer with a representation of the relevant national flag.

12. Mixed Multihull – Nacra17 (Foiling)

- 12.1. Class Rule amendments as detailed in NoR Appendix 4 shall apply.
- 12.2. 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.

- 12.3. 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 12.4.
- 12.4. Each gennaker shall be manufactured by the approved manufacturer with a representation of the relevant national flag.

ER Addendum A

Boat Park & Boat Bay Assignments

Boat park and boat bay assignments will be published not later than 15 June 2021.

ER Addendum B

Equipment Inspection Schedule

The inspection schedule will be decided and provided by WS and will be published not later than 15 June 2021.

ER Addendum C

Installation of Equipment Provided by the OA

The installation instructions for the OA provided onboard equipment will be published no later than 15 June 2021.