

## 2024 Olympic Sailing Competition

### Olympic Equipment

A submission from the Japan Sailing Federation

#### Purpose or Objective

To ensure the Olympic Mixed Two Person Dinghy equipment offers fair & affordable competition without discrimination and contribute to further development of the sport of sailing. The one design Mixed Two Person Dinghy should be affordable, widely accessible around the world, representative of mainstream sailing, appealing to the media over wide range of wind conditions and provide consistency allowing MNAs to invest in the sport without the fear that the equipment will be of no use in a few years.

#### Proposal

Current Event & Equipment	2024 Events – May 2018	2024 Equipment Proposal
Men's Windsurfer – RS:X *	Retained	Select New Equipment
Women's Windsurfer – RS:X *	Retained	Select New Equipment
Heavyweight Men's One Person Dinghy – Finn	New Event - Mixed One-Person Dinghy	Select New Equipment
Men's Two Person Dinghy – 470	New Event - Mixed Two Person Dinghy	Select New Equipment
Women's Two Person Dinghy – 470	New Event Mixed Kite	Select New Equipment

\* Note the equipment for this event is under Olympic Equipment Re-evaluation if retained.

#### Equipment Criteria for Mixed Two Person Dinghy:

Boat concept: Displacement (Non-Foiling)

Skipper weight range: 55-70 kg.

Crew weight range: 65-80 kg.

Sail size: Mainsail 9-10 m<sup>2</sup>, Jib 3-4 m<sup>2</sup>, Spinnaker 13-14 m<sup>2</sup>.

Sail types: Mainsail, headsail and spinnaker. Yes

Suitable wind range for competition: 5-35 knots and any respective sea state suitable for racing.

Builder / Class structure: Measurement controlled

Format proposal: Fleet race – trapezoid, windward leeward, triangle courses, with downwind slalom and /or middle gates.

Other Equipment considerations: Glass fiber reinforced with polyester construction;

Symmetrical spinnaker; Single trapeze rig; Class rules to permit adjustable and optionally arranged rig and sail control systems; The selected class should be run by a well established worldwide class authority with well-developed class rules following the ERS and SCR format.

Equipment Criteria for Men's Windsurfer:

**Criteria to be approved by Council through other submissions**

Equipment Criteria for Women's Windsurfer:

**Criteria to be approved by Council through other submissions**

Equipment Criteria for Mixed One Person Dinghy:

**Criteria to be approved by Council through other submissions**

Equipment for New Event Mixed Kite:

**Criteria to be approved by Council through other submissions**

Current Position

As above.

Reasons

The equipment for the Mixed Two Person Dinghy event must be:

- (a) Affordable - the selected equipment must be affordable two-person boat, particularly affordable for emerging nations which is critical for the ongoing development of sailing and aspiration to the Olympic Games. For example the price of a ready to sail campaign-level 470 Class dinghy starts from €13,000. The average ready-to-race 470 dinghy price is 25% to 30% lower than the price of the other two-person Olympic classes, and about 2½ times the price of the current one-person dinghy men and women class. GRP construction prohibiting expensive materials is a must.
  - (b) Mainstream – a 3-sail 2-person dinghy represents universal and mainstream sailing. A boat like the 470 would continue as the proven flag-bearer for two-person dinghy sailing at the Olympics. A technical and fully adjustable non-foiling dinghy with symmetric spinnaker challenges sailors to be fully accomplished in all aspects of sailing: tuning, tactics, strategy, technique, boat handling, agility and teamwork
  - (c) Universal – a boat like the 470 has worldwide popularity and offers a consistent and proven pathway from youth to Olympic. A boat like the 470 also provides opportunity to build fundamental sailing skills to sailors before moving onto higher performance boats.
  - (d) Accessible - whether newcomer or elite, the selected boat should offer widespread participation and racing opportunities, and be flexible to different racing environments and formats, whilst offering a level field of tactical racing and high performance from 5-35 knots.
  - (e) a Level Field Provider – a boat like the 470 is a well-controlled one-design class, with excellent rules and building specification, delivering a level playing field, with equipment provided by multiple manufactures around the world. The 470 has been refined and upgraded through the years to become a modern, mature and proven racing machine.
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- (f) Media Appealing – a boat such as the 470 lends itself to multiple race format options, which can better present the style of sailing than the limitations of the current Olympic format. Better use of on board cameras, headcams and audio will better convey the intensity of racing, precision of team work and the range of skills needed to sail such a boat. A boat such as the 470 can compete under wide spectrum of wind-speed and sea conditions allowing breathtaking shots under conditions that may not be possible for the other Equipments. A boat such as the 470 is also ideal to show the strategic aspect of the sport.
  - (g) The boat must be suitable for light to medium weight athletes. This is particularly important in order to sustain and promote the sport of sailing in Asian and African countries where a lot of small size sailors are active in the front lines.
  - (h) Continuity - offering continuity of equipment is a significant benefit especially to smaller sailing nations with less funding. Continuity of equipment is crucial for the promotion of the sport as we need to build confidence that investment to buy boats and sails will remain meaningful over time..
  - (i) Minimum need of coach boat - a boat such as the 470 can be sailed safely under wide range of wind conditions and has minimum need of coach boat minimizing cost and need for manpower.
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