

## APPENDIX 11 – WEIGHING CONDITIONS

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The following certificates must have been provided to the measurer prior to any measurement session:

- Design certificate
- Build certificate
- Mast manufacturer certificate
- Certificate of compliance with the OSR

Forms for these certificates are available on the class website under “Documents”.

- At a later stage, the certificate of sail conformity.

### **Measurement trim conditions for weighing, righting moment, freeboard and draft**

*The following comes from the Appendix to the Class Rules and ISO 8666 §6.3 (Measurement trim) and EN 12216.2 §3.5.1.*

When you book a measurement session with the port and/or crane driver concerned, pick a day with favourable weather conditions: no rain and light airs. If these conditions are not fulfilled, the measurer may postpone the session.

#### **Shall remain on board:**

On the mast:

- wind wands
- radar

Above deck:

- all standing and running rigging (limited to one set of mainsail, genoa and spinnaker sheets, **dry**)
- solar panels where applicable
- cockpit/ rope bags
- tiller extensions, winch handles, pump handles, keys for filler caps
- fixed antennas (VHF, GPS, satellite phone, etc.)
- mast and/or cockpit instrument displays

Below deck:

- engine with oil and cooling liquid
- start battery(ies)
- service batteries, whose weight must be known, either by weighing or as specified by the manufacturer
- diesel tank, as empty as possible (1)
- fixed water tank(s), empty
- toilet
- fixed autopilot systems and rams
- fixed bilge pumps
- Emergency pump with its piping
- bunks, including tackle, cloth, lee-cloths

Other fixed non-removable equipment such as:

- fridge, heater, air-conditioning
- watermaker, fuel cells without fuel
- stove without gas bottle

Fixed navigation and electronic equipment:

- nav electronics
- computer
- remote controls
- fixed VHF
- radio, SSB
- GPS, depth-sounder, speedo

Ballast tanks and fill/ transfer pipes empty; bilge dry. If it is impossible to totally empty the ballast fill/ transfer pipes, the measurer will calculate the volume and weight of the remaining water (density of sea water 1.025).

**Shall be disembarked**, in particular:

- all sails and sheets, except main, genoa and spinnaker sheets (one set)
- hydrogenerator, but it's attachment system and power supply system stay in place
- anchoring equipment
- liferaft, horseshoe buoy, danbuoy, etc.
- fire extinguishers
- flares, smoke flares
- mattresses, cushions, beanbags
- stove gas/fuel bottles
- fenders, warps, mooring lines (other than the mooring lines used to hold the boat during the measurement session, the weight of which will be evaluated by the measurer)
- toolbox
- medical kit, etc.

(1) The volume of any remaining diesel will be measured and calculated, the density being 0.85.

**For weighing**, the measurer shall provide the load cell (6 tonnes / 2 kg) and accessories (shackles, hook).

**For the righting moment measurement**, the measurer shall provide the load cell (6 tonnes / 2 kg), the strop for attaching it to the mast, the block and tackle, the strop(s) to be affixed around the bulb, the spirit level to be affixed at the mast base or on the traveller.

**For measuring ballast volume**, the fill hose must be able to pass through holes at the highest point of the ballast tanks, at least Ø 35 (Appendix to Class Rules 1.7).

Don't forget to **seal ballast vent(s)** on the low side of the boat when inclined.

And lastly, you are reminded that you must provide a craft which can take 320 kg of righting moment with a very low attachment point for the block and tackle, and a craft for someone to read the spirit level at the mast base or on the traveller, as well as assistants: a minimum of 2 to hold the boat's mooring lines, 1 to read the spirit level...

## Reminders

*Extracts from the minutes of the Executive meeting on the 15th September 2015*

- Measurement can only take place in favourable weather conditions, even if a postponement affects the skipper's schedule
- The RIB must meet the requirements for the Measurement Procedure of a Class40, otherwise the results obtained may be inaccurate
- If the weight of the boat is less than 4500 kg, a new measurement session is required. Adding the declared weight of missing equipment could lead to inaccuracies. The boat must be in compliance when weighed
- Similarly, the righting moment of the boat can only be measured when it is at the correct weight. Calculating this with equipment added retrospectively could lead to inaccuracies.
- It is the skipper's responsibility to have the boat ready when the measurer arrives • Measurers should not be put under any pressure which could affect the quality of their work.

They are fully authorised to declare a measurement session invalid and demand a new measurement session if a boat does not comply with the various requirements.

A. Bujeaud, 05/01/2022