

# Contender Worlds 2025 measurement guide

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## Introduction

The measurement will use the latest class rules (17 June 2025) together with the current RRS and ERS except where varied by the NOR and SI. This document is only a guide and does not form part of the measurement process.

This document is in two parts, the first part shows/lists how the various parts of the boat should be prepared for the check measuring process. The second part details the measurement process itself and the things to be checked.

## Part 1 – Equipment Preparation

There are 4 main measurement areas, these are for the hull, the mast, the foils and the sail. Equipment preparation for these are detailed in the following sections. After the 4 main parts are completed the mast has to be stepped and the final, 5<sup>th</sup> area, measurements can be made.

### #1 - Hull

As some boats have ropes that are difficult to remove, for this event I am allowing two methods for checking the hull weight.

In both cases the hatch covers should be removed and placed in the cockpit, the centreboard fixings should be with the hull.

### Preferred Presentation

A weight of at least 83.0 kg is expected with up to 6kg correctors.



### Things Included

Anything permanently attached to the hull (e.g. compass, water bottle holder, Sta masters).  
Clip on compass **if specifically recorded on the measurement form/certificate.**

Centreboard attachment fittings.

Mainsheet strop/traveller.

Hatch covers (placed in cockpit, see photo).

IYRU/ISAF/World sailing plaque.

### Things not included

All ropes except the traveller.

Trapeze elastic.

Shroud adjusters attached with pins/split rings.

Everything else (e.g. centreboard stuffer, tow rope, water bottles etc.)

## Optional Presentation

If the hull weight, including an allowance for ropes unable to be easily removed, is clearly above the class minimum weight limit then the hull will be passed. If the hull weight appears to be close to the class limit and cannot be measured with sufficient confidence then the hull must be presented without any ropes. The notional allowance for ropes (outhaul, cunningham, kicker rope, centreboard uphaul/downhaul), and trapeze elastic is **500g**.



### Things Included

Anything permanently attached to the hull (e.g. compass, water bottle holder, Sta masters).  
Clip on compass **if specifically recorded on the measurement form/certificate.**

Centreboard attachment fittings.

Mainsheet strop/traveller.

Control lines: outhaul, cunningham, kicker/vang, centreboard uphaul/downhaul  
Trapeze elastic.  
Hatch covers (placed in cockpit, see photo).  
IYRU/ISAF/World sailing plaque.

### Things not included

Mainsheet.  
Shroud adjusters attached with pins/split rings.  
Everything else (e.g. kicker/vang cascade system, centreboard stuffer, tow rope, water bottles etc.)

## #2 - Mast

The mast is measured with the rigging attached and the halyard in the sailing position.

The main shrouds, lowers and forestay should be pulled tight and secured at band one (the lowers may only be secured at the mast heel if they can't be secured at band 1). The tails should be secured at the mast heel (see photo). [Note this slightly different to the way we've done it in the past, however it makes no difference to the tip weight measurement when using scales with a resolution of 10g]. If the trapeze height adjustment / harness attachment gear can be removed then the trapeze lines can be run along the mast and secured at band 1, otherwise the trapeze should be coiled up and temporarily taped to the mast above band 3.



Shrouds pulled tight, trapeze coiled up.



Tape at band 1 securing shrouds, tape at heel keeping the tails under control

### Things Included

Halyard in sailing position  
Rigging – shrouds, lowers, forestay  
Shroud adjusters  
Sta masters (if not measured as part of the hull)  
Forestay/Highfield lever  
Compass bracket if permanently attached.  
Water bottle carrier if permanently attached.

### Things not included

Everything else (e.g. Water bottle, compass, burgee, windex...)

## #3 - Foils

One centreboard and up to two rudders may be presented for measurement.



### Things Included

Fittings  
Rudder stock and tiller

### Things not included

Tiller extension

## #4- Sail

Up to two sails may be presented for measurement.

Sails **must** have been measured by a national measurer and evidence of this **must** be available (e.g. button, signature and date, sticker, etc.).

Remove all battens, if possible, as this is the ERS requirement. If the battens cannot be removed easily the sail can be presented with them fitted, however it may be necessary for the competitor to remove one or more during the measurement process.

Roll from the head with the port side uppermost down the luff.

## #5 - Rigged measurements

The following measurements are made with the rig tensioned.

- Point where the aft edge of mast including sail track intersects with the deck to the transom.
- Mast band 1 upper edge to deck measured along the aft edge of the mast including the track.
- Boom band inner edge to aft edge of the mast including track.
- Evidence that a tow rope is available.

## Part 2 – Equipment Inspection

There are two and a half days to process about 160 boats, if your equipment doesn't measure you will be asked to leave, sort it out and bring it back at a set time. If something doesn't measure, get everything else checked before you leave to get the problem sorted.

Please plan to arrive 10 minutes before your measurement time, there should be space for 8 boats outside the measurement area (4 starting the process and 4 finishing).

### Things to bring

- Measurement certificate or completed measurement form
- Hull
- Mast
- Boom
- Sails
- Foils (including rudder stock and tiller)
- Tow rope

See part 1 of this document for how to prepare the items.

Do **NOT** bring anything else.

**Everything must be clean and dry. If it isn't you will have to book another measurement time.**

### Process

We are aiming for a maximum of 5 minutes at each measurement station. Hopefully less for the foils and sails.

1. Put hull etc. in one of the spaces outside the measurement area
2. Go to measurement reception, present the measurement certificate or measurement form, and receive a measurement check form. The form will list the order in which to attend the measurement stations.
3. Deliver **foils** and **sails** to the correct measurement stations.
4. Attend the various stations as per your check form.
5. As soon as you can after the hull and mast are measured then step the mast and tension the rig (you may need to do this after visiting all 4 stations depending on time).
6. Fit the boom to the gooseneck and get the final checks made.
7. On completion of the form return it to measurement reception.
8. Remove your boat etc. from the area as soon as the final checks are made and your form is completed.

## Summary of measurement checks

To provide an indication to competitors of the likely checks to be made, the following sections are a non-exhaustive list of points that **may** be verified during the measurement process. The applicable rule and the likely data recorded is also given.

### Measurement Certificate / Measurement form

- Owner's name – record value
- Sail number – record value
- World sailing/ISAF/IYRU plaque number – record value
- Weight – record value
- Weight of correctors – record value

### Hull

- Weight – record value (rules 16.1 & 16.2)
- World sailing/ISAF/IYRU plaque present - yes/no
- Correctors fitted - yes/no
- Sta masters included in hull weight - yes/no
- Compass included in hull weight - yes/no

### Mast

- Total weight – record value (rule 13.7)
- Tip weight – record value (rule 13.8)

- Correct fore/aft and athwartships dimensions at ~300mm above band 1 – yes/no (rule 13.1 ii)
- Bands in correct positions – yes/no (rule 13.5)
- Drain holes below band 1 – yes/no (rule 13.12)
- Sta masters included in mast weight – yes/no

## **Sail**

For each sail:

- Sailmaker's name
- Evidence of certification measurement – yes/no (record serial number if present)
- Three quarter height cross measurement OK – yes/no
- Half height cross measurement OK – yes/no
- Quarter height cross measurement OK – yes/no
- Leech length OK – yes/no

## **Foils**

- Foil fits to template – yes/no
- Centreboard weight – record value (rule 11.5)
- Rudder and stock weight – record value (rule 12.4)
- Size of any corrector weight on the centreboard. – record dimensions.

## **Rigged Measurements**

- Aft edge of mast including track at deck to transom – yes/no (rule 13.9)
- Mast band 1 to deck – yes/no (rule 13.5)
- Boom band to aft side of mast including track – yes/no (rule 15.3)
- Evidence that tow rope is available – yes/no (rule 15.3)