

Certified PHRF - Measurement Preparation Guide

Boat preparation for measurement is identical to IRC. Weight and hull profile measurements taken are identical to those used for IRC. Therefore IRC references are valid. It may be helpful to review the IRC Rule and on-line information and go over the IRC Application spreadsheet form. Being informed and prepared is the best way to make the process as straight forward as possible. Please read this checklist thoroughly.

The earlier the process is started the better. Contact a measurer well before your boat might be ready to be measured to begin the necessary coordination and work out a preliminary schedule. Two measurement steps are involved: weighing & in-water overhang measurement. The order in which these are performed is not important. Both steps require the boat to be in empty measurement condition as described herein. All measurements can be easily accomplished within an hour with proper preparation, coordination with boat yard facilities, and calm weather conditions. Flexibility is a must, particularly with respect to those items out of the control of the measurer and owner - namely the weather and boat yard scheduling. The presence of the owner or owner's representative is required.

A. CPHRF / IRC Empty Measurement Condition:

This is the boat loading condition required for Weighing and Afloat measurements. The simplest description is just plain empty, all sails and loose gear removed - exceptions are described below.

Required items:

1. Yacht fully rigged with all spars and standing rigging installed. Spinnaker pole or bowsprit on board.
2. Running rigging installed: halyards, vang, mainsheet, runners, traveler control lines, i.e. permanently installed running rigging in place.
3. Engine installed or outboard engine on board if applicable.
4. Batteries on board if onboard when racing.
5. All furniture, tables and doors installed. Compliance with class rules is permitted. All pieces removed must be listed on the application form for description on the CPHRF certificate.
6. Settee/bunk cushions on board if onboard when racing.
7. Companionway hatch boards on board.
8. Permanently installed equipment on board.
9. Internal ballast/corrector weights installed. Provide documentation for weight.

Removed items:

1. Tanks EMPTY. Tanks are to be empty if at all practicable. Otherwise, measurer must be provided with an accurate and confirmable volume of liquid so the weight of the contents can be deducted from the scale reading.
1. (Note: Afloat measurement with liquid in the tanks will impact the overhang measurements. Weight in the tanks will increase the measured waterline length and may detrimentally affect the rating.)
2. NO sails, headsail or spinnaker sheets, guys, spare running/standing rigging.
3. NO propane or CNG tanks.
4. NO food, cooking/catering utensils.
5. NO anchors, chains, rodes, dock lines or fenders.
6. NO clothing or personal effects.

7. NO life rafts, dinghies, life jackets or any other safety equipment. Portable fire extinguishers should be kept on board except for the actual weighing and afloat measurement when they should be immediately available for use if needed.
8. NO bedding or loose cushions.
9. NO tools or spare parts or other loose gear. All lockers, drawers, storage bins EMPTY.
10. NO crew or personnel.
11. NO water in the bilge.
12. Decks/sides DRY.

B. Measurement Steps:

1. Afloat Hull Measurements
2. Weighing

C. Description of Measurement Steps:

1. Afloat Hull Measurements:

Requirements:

Boat in Empty Weight Condition as described above.

Weather:

Calm wind and waves. No precipitation.

Minimal nearby boating activity.

Measured parameters:

LOA, BO, h, x, SO, y (See diagram)

2. Weighing:

Requirements:

Boat in Empty Weight Condition as described above.

Single point lift crane with load cell or US Sailing-approved pad scales configuration.

Weather:

Calm wind.

No precipitation.

Bow and stern overhangs

