



# EC12 Class Measurement and Certification Policy

## Purpose

To insure we maintain the competitive nature of the EC12 class, all boats **MUST** comply with class rules. Traditionally this has been done at the National Championship Regatta (NCR) with extensive pond side measuring. Rather than have a day set aside for measuring pond side, the class will utilize a certification process which can be supplemented with on site measuring at the call of the Race Committee.

## Process

The owner shall measure the boat and fill out the Class Measurement Certificate. Another EC12 owner who is also an AMYA member in good standing will attest as witness.

**Official Class Measurers are available to measure boats.** Owners who are unsure or lack the proper equipment to accurately measure their boats, may go to an Official Class Measurer. Owners must be present during measuring. See page 4 for list of measurers to find one near you and set up an appointment to have your boat measured.

It is the owner's responsibility to see that his/her boat meets all the specifications of the Class. After the Measurement Certificate has been properly filled out and signed by both the owner and witness (or Class Measurer), the owner shall retain the original. The Measurement Certificate or a true copy must be taken to all Regional Championships and National Championships and presented to the Race Committee at check-in.

*Fully commissioned boats by recognized builders may have the Measurement Certificate completed by the builder and signed by both the builder and the new owner at delivery.*

A new Measurement Certificate will be required if the boat has been changed affecting trim and ballast or other rules since the previous issuance. *(A change in battery chemistry, size or capacity may affect trim or ballast.)*

No boat will be allowed to participate in an EC12 Class AMYA sanctioned Regional or National Championship Regatta without a Measurement Certificate. Owners who have not measured and completed the certificate will be subject to complete measurement prior to the event. There will be no delay in race start so the owner may need to arrive a day early to have his/her boat measured.

Any and all Boats may be subject to measurement and/or weighing before or after any race of the competition by order of the Race Director. The typical process will be to spot check a handful of randomly selected boats in the fleet. Boats that fail a measurement check may correct the error, if possible, prior to racing but no races will be delayed for this purpose.

## What If My Boat Does Not Measure Correctly?

If your boat does not measure in, you can call or email the Class Secretary for clarification. Older boats may be grandfathered. All other issues will need to be corrected before the boat can sail in Championship regattas.

## Challenges

During or after any Championship Competition Race, any participating skipper, may protest another yacht on specific measurement related infraction(s). If a violation is confirmed the subject boat will be DSQ and the next boat(s) in the order of the finishers will be eligible for the disputed boat's place.

## Class Supplier Items

Any unmodified **CLASS SUPPLIER** provided item found to be out of specification should be immediately brought to the Class Secretary's attention. The item will be classified as "legal" until the problem is resolved between the Class Advisory Council and the supplier.



# Measurement Certificate for YRN:

(From Label Inside Hull)

Hull Number: \_\_\_\_\_ Certificate Number (if applicable): \_\_\_\_\_

Hull manufactured by: \_\_\_\_\_

- Is hull from a class approved mold (latest version)? Yes
- Is hull grandfathered from a previously class approved mold? Yes
- Is hull certificate and class YRN label laminated into hull? Yes
- Is the keel width less than or equal to 2.15 inches (54.61mm)? Yes
- Has the hull shape been altered in any way? No
- Is the deck material wood, fiberglass or Formica? Yes
- Does the deck sheer have a continuous curve? Yes
- Is the one deck hatch  $\leq 60$  square inches? Yes
- Is the water line of the boat, ready to sail, including batteries, between 42" and 43"? (Do not include the meniscus (water bubble) at waterline) Yes
- Is the draft  $\leq 7.875$ "? Yes
- Is the rudder material wood or fiberglass? Yes
- Is the rudder height (top to bottom)  $\leq 5$ " &  $\leq 3.5$ " in width (front to back)? Yes
- Is the rudder wider than or extend below the keel? No
- Is the projected jib stay attachment to the mast  $\leq 59$ "? Yes
- Is the mast height including the mast step & crane  $\leq 72$ "? Yes
- Is the mast a rotating mast or "swing rig"? No
- Is the mast made of aluminum or wood? Yes
- Are the booms made of aluminum, wood or fiberglass? Yes
- Are the booms permanently bent or curved? No
- Are radio functions limited to rudder, main sheet, jib sheet (or jib trim) and jib twitcher? Yes
- Do all suits of sails comply with class rules with regards to "distinguishing marks"? Yes

## Beam Measurements Inches (+/- .25")

Station	Beam	Actual	OK?
10	4.57		
15	6.46		
20	8.15		
25	9.65		
30	10.75		
35	11.14		
40	10.75		
45	9.61		
50	7.72		
55	5.24		

OR

## Beam Measurements MM (+/- 6 mm)

Station	Beam	Actual	OK?
10	116		
15	164		
20	207		
25	245		
30	273		
35	283		
40	273		
45	244		
50	196		
55	133		

Sails from Sailmakers listed on the EC12 class website are approved and do not require measurement. The Sailmaker's logo must be visible. Individuals who make their own sails must have them measured by an Official Class Measurer and be initialed and dated in the corner of each sail.

**By signing this certificate, both boat owner and measurer/witness insures this boat complies with all AMYA EC12 class rules and regulations. Both boat owner and measurer/witness may be subject to penalties or sanctions by the EC12 class for falsifying any information above.**

Date Measured: \_\_\_\_\_

Boat Owner's AMYA Number: \_\_\_\_\_

Boat Owner's Name: \_\_\_\_\_

Boat Owner's Signature: \_\_\_\_\_

Measurer's Own AMYA Number: \_\_\_\_\_

Measurer's Name: \_\_\_\_\_

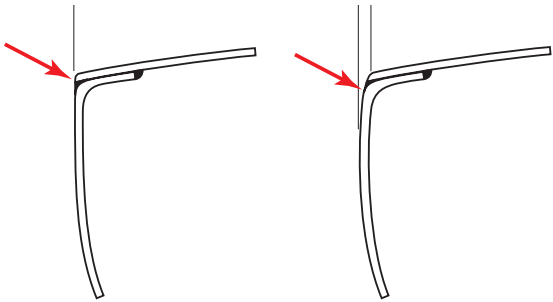
Measurer's Signature: \_\_\_\_\_

*This certificate should remain with this boat and go to the new owner if the boat is sold or transferred in any way.*



# EC12 Stations Measurement Guide

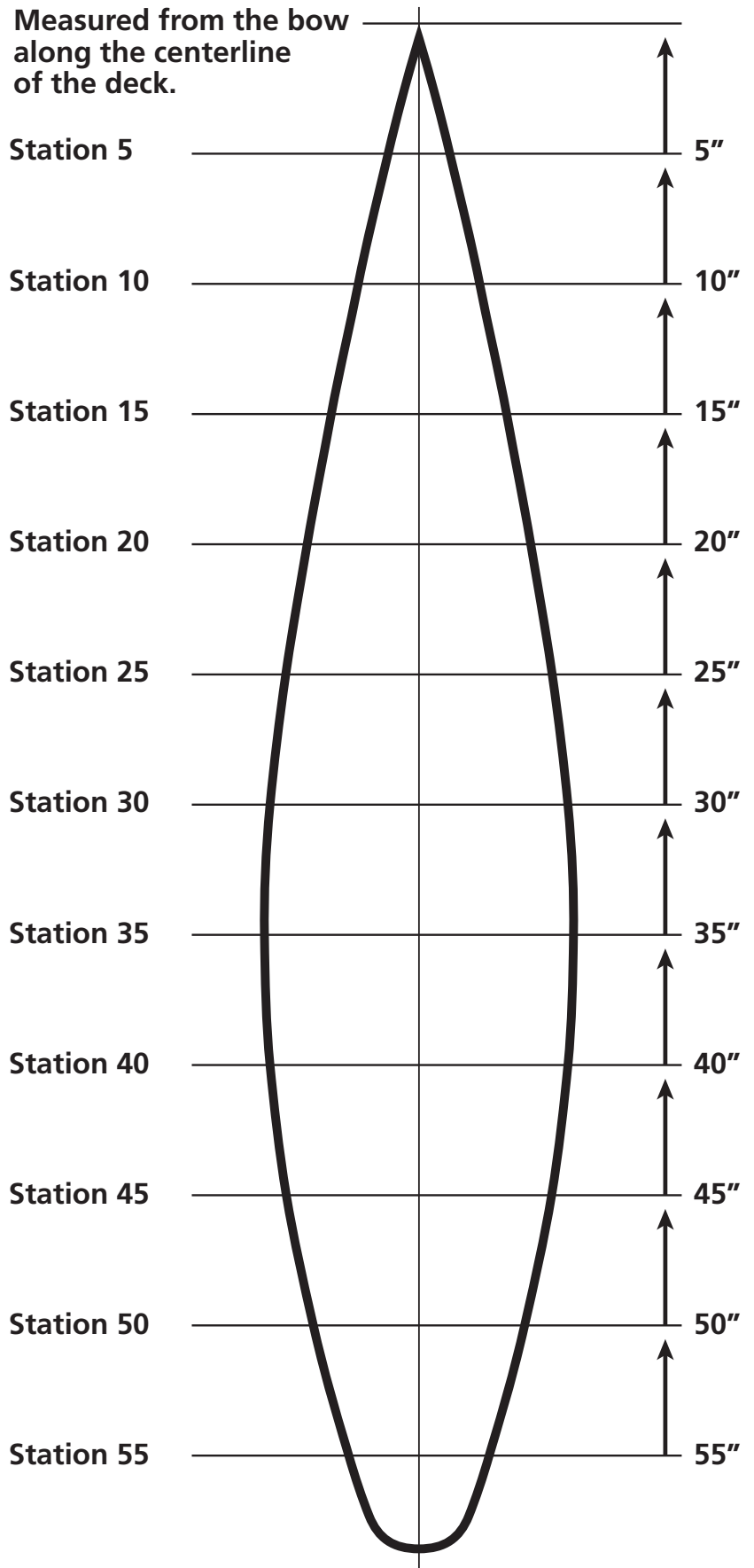
Each station is to be measured at the sheer. This is the upper most edge of the hull where it joints the deck. In case of a slight rounding of the edge, the outside of the curve is the point of measurement, excluding the tumblehome.



Some builders have added rub rails to the gunwale for aesthetic purposes. Rub rails **MUST** be excluded from the beam measurement.

## Measuring the EC12 Beam

1. Measure down the centerline of the deck to the desired station.
2. Using distance calipers, measure the beam perpendicular to the deck centerline from one side of the hull to the other.
3. Do not use a flexible measuring device over the deck as the crown will add distance to the beam measurement.
4. Record the measurement in the appropriate space on the Class Measurement Certificate.
5. Continue measuring as above at the desired stations.





# Measuring Instructions for the EC12

The requirements for measuring are spelled out on the Measurement Certificate on page 2 of this document. The boat must be ready to sail with all equipment installed including batteries and the A-rig standing. If outdoors in windy conditions, use a "rig pig" of 12.5 oz (350 grams) set on the mast step to represent the average weight of a rig. The weight of rigs varies and if the waterline is close to 42" or 43", you must use the actual rig.

Getting together with other class members who have a tank is the best way. You MUST have another EC12 owner who is a member of AMYA witness the measuring of your boat.

The task of measuring a EC12 is made easier if you have a large caliper that can span the hull to measure the beam stations. Harbor Freight offers an aluminum unit with thumbscrew that will do the job. (24" Jumbo Aluminum Caliper \$9.99 in Jan '14.)

To measure the waterline and establish the location of the waterline, a tank is of great value. Not having one, you can make a frame stand that can be used to mark the waterline length of 42, 42.5 or 43 inches on the hull, then adjust the ballast to the marks with a mirror using any kind of pool or pond. (See Waterline By Tom Germer PDF file. Tank and measuring frame photos.)

A knockdown tank can be made using rough lumber and a drop cloth. Minimum 48" sides, bottom and two end pieces with cleats to hold the sides in. Web strap will hold the unit in shape while the plastic is installed and it is filled. Requires a level bed or support. (See Tom Phillip's Knockdown Tank instructions PDF file.)

## Questions on Measuring Your EC12

Feel free to call or email Joe Walter or Tom Phillips for answers to your questions.

**Joe Walter**  
Class Secretary  
(904) 662-0880  
floridaec12@comcast.net

**Tom Phillips**  
Executive Officer  
(904) 804-4056  
wigwam@bellsouth.net

## Official Class Measurers

This list of measurers are approved by the EC12 class to measure and certify boats. Owners are not required to have an Official Class Measurer certify their boat, but having them do it will insure accuracy and acceptance of certification.

**Tom Germer**  
The Villages, FL  
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dplin2001@yahoo.com

**Alan Perkins**  
The Villages, FL  
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**Scott Vernon**  
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**Steve Helander**  
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