

Measurement Form

Authority: International Yacht Racing Union, 60 Knightsbridge, London SW1X 7JX, England.

GENERAL NOTES AND INSTRUCTIONS

For the Builder and Owner

1. The builder shall pay the International Class Fee to the IYRU, either direct or through his National Authority (NA) or Europe Class National Association (CA). The IYRU will issue an IYRU Plaque, an International Class Fee Receipt (ICFR) and a measurement form.
2. The builder shall fix the plaque to the hull and complete Part 1 of this form.
3. The builder (or owner) shall apply to the owner's National Authority (or CA if the NA is not administering the Class) for a sail number, enclosing the ICFR and any fee that may be required.
4. If requested to do so by the owner, the builder shall arrange for a measurer officially recognised by his NA to take all the measurements in Part 2 of this form before the hull leaves his premises.
5. The builder shall provide the owner with the ICFR and this form, with part 1 complete when the boat is supplied.
6. The owner (or the builder) shall arrange for a measurer approved by his NA to take all the measurements in Parts 2 to 6 inclusive on this form.
7. The owner shall submit this form, when completed (except for Part 10) to his NA (or CA if the NA is not administering the Class) together with any fee that may be required.

For the Measurer(s)

8. If the Measurer is in any doubt regarding the accuracy of any part of the boat, its spars, sail or equipment, he shall report it in the remarks space (Part 7) of this form.
9. The boat, its spars, sail and equipment are required to conform to all the class rules even if not specifically mentioned on this form.
10. All dimensions are in millimetres (mm) unless otherwise stated.
11. **Definitions:**
 - (i) The "aft measurement point" is the intersection of the keel line with the transom, both projected if necessary.
 - (ii) The "aft measurement plane" is the plane through the aft measurement point, perpendicular to the base line. It is vertical.
 - (iii) The "base line" is as shown on the measurement diagram. It is horizontal.
 - (iv) For the purpose of these definitions the "transom" is an imaginary surface enclosed by the aft edge of the hull shell and a line joining the port and starboard sheerlines at the aft end of the hull shell.

PART I

IYRU Plaque No.

To be completed by the BUILDER before the hull leaves the builder's premises or is measured.

- 1.1 Builder's Name:
Address:
.....
- 1.2 (a) Are you
 - (i) a professional builder? (ie. Do you build boats for sale?) Professional
 - or (ii) an amateur builder? Amateur
- (b) (i) If professional, Are you licensed by IYRU? Yes / No
(ii) If amateur, Do you certify that the boat is for your own use and that you have not built another in the last 12 months? Yes / No
- 1.3 Have you paid the International Class Fee and fitted the plaque to the hull? Yes / No
- 1.4 Do you certify that the boat has been built in accordance with the Class Rules? Yes / No

Builder's Signature:

Date:

IYRU Plaque No.

National letter(s)
and Sail number

Measurer's Signature:

PART 2 - HULL

Rule No.	Item No.	Measurement	Minimum	Actual	Maximum
		With the hull inverted and set up level both fore and aft and athwartships			
7(2)	2.1	Distance from the base line to underside of the hull on the centreline at: (a) Transom station	-	160	-
		(b) Station 10(1000mm from aft measurement plane)	50		70
		(c) Station 6 (2000mm from aft measurement plane)	2		22
		(d) Station 3 (2750mm from aft measurement plane)	-	49	-
		(e) Station 1 (3250mm from aft measurement plane)	131		151
7(2)	2.2	Distance from base line to sheerline at the stem	525		555
7(4)(ix)	2.3	Distance from base line to top of centreboard case at: (i) forward end of slot (ii) aft end of slot difference			
			-		10
7(4)(iv)	2.4	Distance from aft measurement plane to: (a) aftmost part of transom including rubbing strake (b) foremost part of aft face of transom	- -		20 20
7(2)	2.5	Distance from aft measurement plane to foremost part of the stem, excluding rubbing strake	3340		3360
7(2)	2.6	Distance measured along the keel from aft measurement point to: (a) aft end of the centreboard case slot (b) forward end of the centreboard case slot	1465 -		- 2005
7(2)	2.7	Width of centreboard case slot, excluding any inset into the bottom of the hull and/or case for slot gasket/rubbers	18	Min Max	22
7(2)	2.8	Distance from the surface of the hull to the template at: (a) Transom Station (template resting on its nibs) (b) Station 10 (template set above the keel at a height of the measurement obtained in Item 2.1(b) - 50mm) (c) Station 6 (template set above the keel at a height of the measurement obtained in Item 2.1(c) - 2mm) (d) Station 3 (template resting on its nibs) (e) Station 1 (template set above the keel at a height of the measurement obtained Item 2.1(e) - 131mm) (f) Stem (template resting on its nibs and set relative to station 1 as shown in the measurement diagram)	0 0 0 20 0 0	Min Max	20 20 20 0 20 15
7(2)	2.9	Height of sheer. Distance below top edge of template to sheer at: (a) Transom station (b) Station 10 (c) Station 6 (d) Station 3 (e) Station 1	0 0 0 0 0	<u>Pt Stbd</u>	20 20 20 20 20

Measurer's Signature:

Rule No.	Item No.	Measurement	Minimum	Actual	Maximum
		With the hull the right way up and set level both fore and aft and athwartships			
7(2)	2.10	Distance from the aft measurement plane to:			
		(a) Aft end of top of centreboard case slot	1510		0
7(4)(i)		(b) Main bulkhead	1980		2020
7(4)(v)		(c) Centre of mast hole in the deck	2680		2720
7(2)	2.11	Camber of deck at main bulkhead	42		62
7(2)	2.12	Distance from top of centreboard case to height of sheer at station 7 (1750mm from aft measurement plane)	174		194
7(4)(iii)	2.13	Thwart			
		(a) Does the thwart connect the two side tanks with the upper part of the centreboard case?		Yes / No	
		(b) Width (at narrowest position)	60		-
		(b) Depth (at shallowest position)	15		-
	2.14	<u>Side Tanks</u>			
		(a) Are the sides of the tanks straight between the main bulkhead and the inner face of the transom (excluding any fillets or fairing at bulkhead or transom not exceeding 25mm)?		Yes / No	
7(2)		(b) Radius of side tanks	110		150
7(2)		(c) Distance between the side tanks at:			
		(i) inner face of transom (excluding any fillets or fairing not exceeding 25mm)	640		680
		(ii) Main bulkhead (excluding any fillets or fairing not exceeding 25mm)	720		760
7(4)(vi)		Is there a hatch or drain plug in eachside tank?		Yes / No	
7(2)	2.15	<u>Transom</u>			
		(a) Is the top of the transom straight between sheerlines within a tolerance of $\pm 10\text{mm}$?		Yes / No	
7(4)(vii)		(b) Is the total area of holes in the transom less than 0.02m^2 ?		Yes / No	
7(4)(i)	2.16	<u>Bulkhead</u>			
		(a) Is there a hatch in the bulkhead?		Yes / No	
		(b) Can the hatch be so secured that it will resist accidental dislodgement?		Yes / No	
		(c) Are there no more than 8 holes in the bulkhead for control lines and is each no more than 7mm in diameter?		Yes / No	
		Note: Lead holes for control lines are permitted provided these holes do not breach the watertight integrity.			
7(4)(viii)	2.17	<u>Mast lower bearing adjustment</u>			
		(a) total distance of fore and aft adjustment	-		50
		(b) minimum possible distance from the aftmost point of the adjustment device to station 6 (2000mm from aft measurement plane)	500		0
7(4)(ii)	2.18	<u>Forward buoyancy unit.</u>			
		Does the unit comply with rule 7(4)(ii)?		Yes / No	
7(4)(iv)	2.19	<u>Rubbing strakes</u>			
		(a) Maximum width at any point between stem and transom	-		40
		(b) Width at stem	-		20
		(c) Maximum depth at any point	-		25
15(2)	2.20	Is there a fitting at the stem head for a painter?		Yes / No	

Measurer's Signature:

Rule No.	Item No.	Measurement	Minimum	Actual	Maximum
8(3)	2.21	Do the buoyancy tanks satisfy the buoyancy test specified in Rule 8(3)? (a) Port Tank (b) Starboard Tank (c) Forward Tank (if fitted)		Yes / No Yes / No Yes / No	
13(1)	2.22	Weight of the hull, including corrector weights and fixed fittings permitted by the rules but excluding sheets, control lines, painter, paddle, compass and fixings and floor boards.	45kg		-
13(3)	2.23	Corrector weights (if needed) (a) Weight (b) Are the weight and sail number (or IYRU plaque number) stamped on the weight(s)? (c) Are the weight(s) secured to the bulkhead at a height not less than 200mm from the bottom of the hull?	-	Yes / No Yes / No	5kg
Note: If the rudder assembly is to be measured at the same time as the hull leave the hull in the level position until after completion of item 3.1.					

PART 3 - RUDDER AND CENTREBOARD

10(6)	3.1	<u>Rudder Assembly and Blade</u> Complete assembly fitted to level hull (a) Does the rudder blade pivot about its axis in the stock?		Yes / No	
10(5)		(b) With the blade in the fully down position, depth of the lowest point of the blade below aft measurement point			600
10(1)	3.2	<u>Rudder Blade</u> (a) Do materials comply?		Yes / No	
10(3)		(b) Thickness at the thickest point	18		22
10(2)		(c) Is the profile within 10mm of the design shape?		Yes / No	
9(1)	3.3	<u>Centreboard</u> (a) Do materials comply?		Yes / No	
9(3)		(b) Thickness at the thickest point	18		22
9(2)		(c) Is the profile within 10mm of the design shape?		Yes / No	
9(2)		(d) Is the top of the board fitted with battens or stops so that the top 50mm of the board cannot enter the centreboard case slot?		Yes / No	
9(2)		(e) Is the cutout (if any) not more than 160mm diameter?		Yes / No	
9(5)		(f) Weight			5kg

PART 4 - MAST AND BOOM

11(1)	4.1	MAST Is the mast made of permitted materials? (as far as can be assessed without destructive testing)		Yes / No	
11(8)(i)	4.2	<u>Mast stepped in boat</u> (a) Lower measurement band. (i) Height of upper edge of band above sheer at station 3 (ii) Is the depth not less than 20mm? (iii) Is the colour distinctive?		Yes / No Yes / No	335

Measurer's Signature:

Rule No.	Item No.	Measurement	Minimum	Actual	Maximum
11(14)		(b) Is the mast retained in the mast step when its aft edge is facing in any direction between one beam, through the stern arc to the other beam?		Yes / No	
11(9)		(c) Horizontal movement of the mast at the bearing surfaces between mast and hull at: (i) the deck (ii) the heel			5 5
	4.3	<u>Mast out of Boat</u>			
11(7)		(a) Is the aft face of the mast straight within the limits for permanent set of not more than 40mm?		Yes / No	
11(8)(ii)		(b) Upper measurement band (i) Distance from lower edge of upper band to upper edge of the lower band (ii) Is the depth not less than 20mm? (iii) Is the colour distinctive?		Yes / No Yes / No	4570
11(10)		(c) Weight (i) Mast including corrector weight(s) if any, but excluding halyard	5.5kg		
11(12)		(ii) corrector weight(s), if any.			0.5kg
11(11)		(d) Distance from the heel of mast to: (i) Centre of gravity	1900		
11(6)		(ii) Centre of deck bearing ring	445		455
		(e) Diameter (i) at heel (ii) at deck, including mast deck ring	47.5		52.5 80
		BOOM			
12(1)	4.4	Is the boom made of permitted materials? (as far as can be assessed without destructive testing)		Yes / No	
	4.5	<u>Boom fitted to the mast</u>			
12(9)		(a) Is the fitting arrangement of boom to mast such that both rotate together?		Yes / No	
12(10)		(b) With the boom held such that its upper edge is at right angles to the aft edge of the mast, is the top of the forward end of the boom level with or above the upper edge of the mast lower measurement band?		Yes / No	
12(7)		(c) Measurement band (i) Distance from aft edge of mast, including any external track, to forward edge of boom measurement band (ii) Is the width not less than 20mm? (iii) Is the colour distinctive? (iv) Is there a stop fitted to the boom to prevent the sail being hauled out beyond the forward edge of the band?		Yes / No Yes / No Yes / No	2740
12(8)		(d) Distance from aft edge of mast, including any external track to extreme aft end of the boom including any outhaul or other fittings			2890
12(6)		(e) Is the boom straight within the permitted limit for permanent set of 20mm?		Yes / No	
12(4)		(f) Will the boom, excluding fittings, pass through a circle of diameter 76mm?		Yes / No	
12(5)		(g) Depth of boom	60		
12(3)		(h) Section of boom (i) If of metal, is the cross section uniform throughout its length, with no tapering?		Yes / No	
12(5)		(ii) If of wood, is any taper confined to aft of the forward edge of the measurement band?		Yes / No	

Measurer's Signature:

National Letter(s)
and Sail Number

PART 5 - SAIL

Rule No.	Item No.	Measurement	Minimum	Actual	Maximum
5(2)	5.1	(a) Maker's Name			
14(2)		(b) Maker's Serial Number (if any)			
14(2)		(c) IECU Label Number			
14(4)	5.2	(a) Is the sail made of woven cloth of same weight throughout?		Yes / No	0.3m ²
14(4)		(b) Area of transparent panel			
14(4)		(c) Is the headboard as shown on the sail measurement diagram?		Yes / No	
14(1)		(d) Is any reinforcement of the corners of the sail, comprising more than two additional layers of woven cloth, not more than 290mm from each corner?		Yes / No	
14(5)		(e) Is the Maker's mark not more than 411mm from the tack and will it fit in a square of 150mm sides?		Yes / No	
14(5)	5.3	(a) Length of leach measured from the upper corner of the headboard to the clew			5320
		(b) Number of battens	3		4
		(c) Do the battens divide the aft edge of the sail into equal parts ± 50 mm?		Yes / No	
		(d) Width of the sail at half height			1680
		(e) Sum of the lengths of the battens			2350
14(1)		(f) Distance from the forward end of any batten pocket to mast or boom	150		
		(g) Do the National letter(s) and sail numbers comply with IYRU Racing Rule 25 and: Height min 300mm Width min 200mm Thickness min 45mm Spacing min 60mm Starboard side uppermost All above one third luff height (1524mm from tack) If on same line, a dash between National letter(s) and number(s)	?	Yes / No	

PART 6 - TOTAL WEIGHT

13(2)	6.1	Total weight of the boat, ready to sail, including sail, hull, spars, centreboard, rudder assembly, sheet and control lines, but excluding items in Rule 16 (ie. life jacket, bailer, paddle and painter)	63kg		
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PART 7 - MEASURER'S REMARKS

Rule No.	Item No.	Remarks	Measurer's Signature

IYRU Plaque No.	
National letter(s) and Sail number	

PART 8 - MEASURER'S DECLARATION

I certify that having measured and/or weighed those parts of this boat listed against my signature, to the best of my knowledge they comply with the Class Rules, except as noted in Part 7, Measurer's Remarks.

8.1.1 Measurer's Name (BLOCK CAPITALS):

8.1.2 (a) Are you a measurer for the International Europe Class approved by your National Authority? Yes / No

(b) State name of the Authority:

8.1.3 List the measurement form item numbers which you are certifying as having completed

.....

Signature: Date:

8.2.1 Measurer's Name (BLOCK CAPITALS):

8.2.2 (a) Are you a measurer for the International Europe Class approved by your National Authority? Yes / No

(b) State name of the Authority:

8.2.3 List the measurement form item numbers which you are certifying as having completed

.....

Signature: Date:

8.3.1 Measurer's Name (BLOCK CAPITALS):

8.3.2 (a) Are you a measurer for the International Europe Class approved by your National Authority? Yes / No

(b) State name of the Authority:

8.3.3 List the measurement form item numbers which you are certifying as having completed

.....

Signature: Date:

IYRU Plaque No.

National letter(s)
and Sail number

PART 9 - OWNER'S DECLARATION

To be completed by the owner before submitting the form to his/her National Authority (or Europe Class National Association if the National Authority is not administering the Class) together with any certification fee that may be required.

9.1 Owner's Name (BLOCK CAPITALS):

Address:

.....

9.2 Owner's Club:

9.3 Boat Name (if any):

9.4 (a) Do you undertake to race this International Europe dinghy only so long as you maintain it to conform with the Class Rules? Yes / No

(b) Do you also undertake that the weight correctors(if any) will not be altered or removed except when done at an official reweighing? Yes / No

Signature: Date:

IYRU Plaque No.	
National letter(s) and Sail number	

PART 10 - MEASUREMENT CERTIFICATE

For use by the Certifying Authority only.

When Part 10 has been completed by a competent Authority, a photocopy of this form may be issued in lieu of a Measurement Certificate.

10.1 Name of Certifying Authority:

10.2 Name of Official issuing Measurement Certificate:

10.3 Are you, on behalf of the Authority named in 10.1 above, satisfied that this boat has been measured by an approved measurer (or measurers) and, as far as can be assessed from the information given on this form, satisfied that the boat complies with the Class Rules?
Yes / No

Signature:
(For Certifying Authority)

Official Stamp: Date: