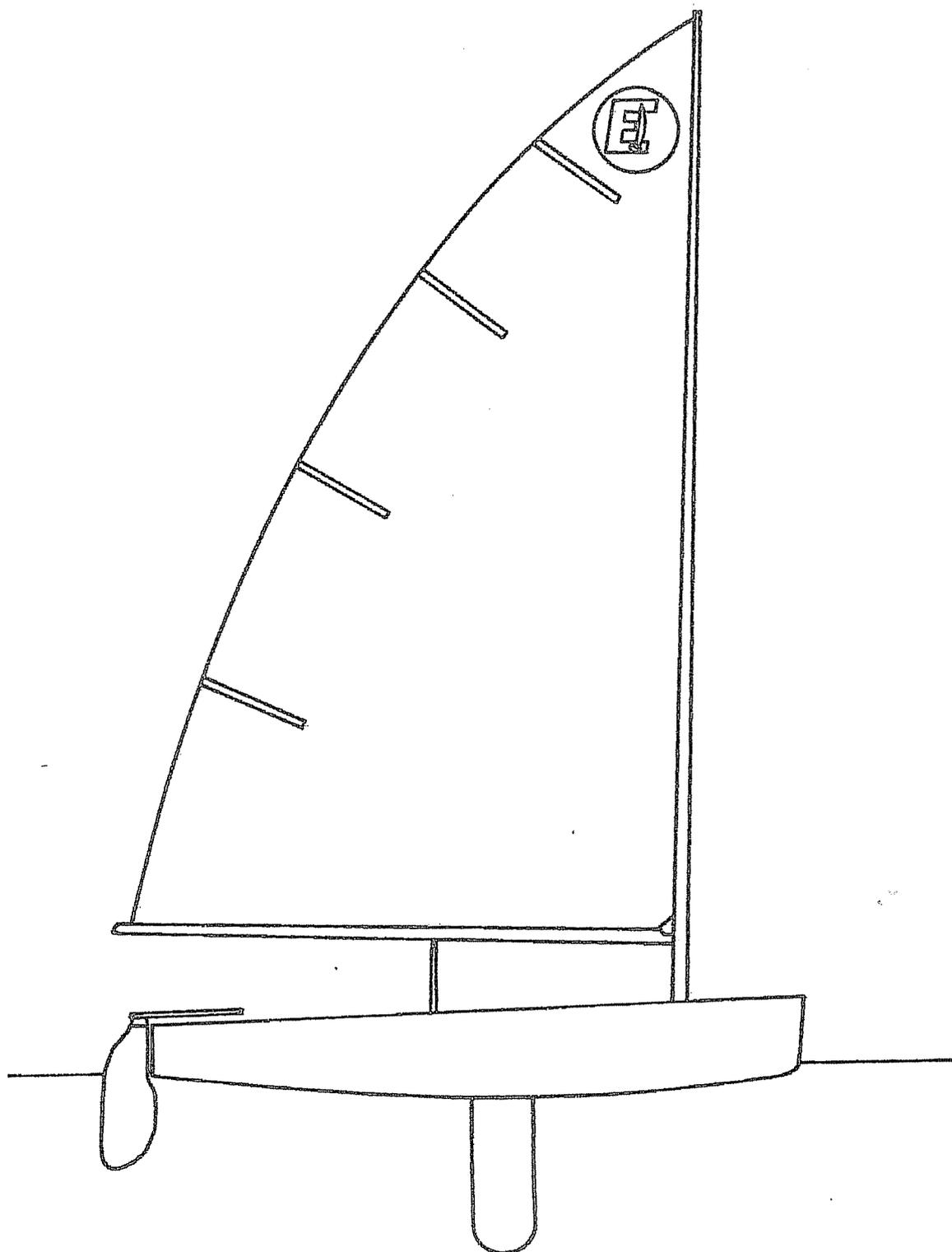


2004
INTERNATIONAL EUROPE CLASS
MEASUREMENT FORM

Authority*: International Sailing Federation
Ariadne House, Town Quay, Southampton SO14 2AQ, UK



• The International Sailing Federation (ISAF) is not a National Authority (NA).

2004 International Europe Class Measurement Form

GENERAL NOTES AND INSTRUCTIONS

For the Builder and Owner

1. The builder of a hull, a mast or a boom shall fulfil the conditions for the licensing system. The builder of a hull shall pay the International Class Fee (ICF) to IECU. The ISAF will issue an ISAF ICF sticker, an ICF Receipt (ICFR) and a Measurement Form, except Part 4 (mast and boom). The builder of a mast or boom shall pay the Authorised Manufacturers Sticker (AMS) fee to IECU. The ISAF will issue an AMS together with an associated mast or boom measurement form.
2. The builder shall fix the ICF sticker to the main bulkhead, to starboard and shall complete Part 1 of this form. The builder of a mast or boom shall fix the AMS near the gooseneck and shall complete Sections A and B of the respective measurement forms.
3. The builder, or owner shall apply to the owner's NA (or CA if issue of sail numbers has been so delegated) for a sail number, enclosing the ICFR. This is also necessary if the owner wants to be issued with a personal sail number.
4. Unless otherwise agreed with the owner the builder shall arrange for an official measurer to take all the measurements in Part 2 of this form before the hull leaves the Builder's premises.
5. The builder shall provide the owner with the ICFR and this form, with Part 1 and Part 2, unless otherwise agreed as in paragraph 4, complete when the boat is supplied.
6. The owner (or the builder) shall arrange for an official measurer or measurers to take all the measurements in Parts 2 to 6 inclusive on this form. Each part, or page may be undertaken by a different measurer. The measurer(s) shall complete and sign part 7 for those measurement form items completed.
7. The measurement form shall be passed to the owner.
8. The owner shall complete and sign part 8 of this measurement form and then send all papers as required by his/her NA to his/her NA (or CA if the CA is the delegated certifying authority) together with any fee that may be required.
9. Parts 1 to 3 and 4 to 8 may be copied for the following purposes:
 - (i) As a measurement record so that the owner may fulfil his/her responsibilities in compliance with RRS 78 and CR 2.3.2 (iii) last sentence.
 - (ii) Part 8 - to provide an 'owner's declaration' for the certifying authority before that authority issues a new 'change of owner' certificate.

For the Measurer(s)

10. If the Measurer is in any doubt regarding the accuracy of any part of the boat, its spars, foils, sail and equipment, he/she shall report it in the remarks space (Part 7) of this form.
11. The boat, its spars, foils, sail and equipment are required to conform to all the class rules even if not specifically mentioned on this form.
12. All dimensions are in millimetres (mm) unless otherwise stated. The measurement found shall be entered in the actual column. Any other form of entry is not acceptable.
13. Definitions
 - (i) The "aft measurement point" (AMPt) is the intersection of the underside of the hull on the centreline with the transom, both extended if necessary.
 - (ii) The "aft measurement plane" (AMPn) shall be a transverse plane through the AMPt perpendicular to the base line. It is vertical.
 - (iii) The "base line" shall be as shown on the hull measurement diagram. It is horizontal.
 - (iv) For the purpose of 12(i) the transom is an imaginary surface enclosed by the aft edge of the underside of the hull shell and a line joining the port and starboard sheerlines at the aft end of the hull shell.

PART 1.		ISAF PLAQUE NO:
To be completed by the BUILDER before the hull or kit leaves the Builder's premises or if a complete hull before it is presented for measurement.		
1.1	Builder's Name: Address:	
1.2	(a) Are you a professional boat builder licensed by the ISAF to build Europe Dinghies? (b) If not a Licensed Builder have you built another Europe dinghy in the last 12 months?	Yes / No Yes / No
1.3	Has the ICF been paid and, if a complete hull, has the sticker been fixed to the main bulkhead to starboard of the centreline?	Yes / No
1.4	Do you certify that the hull/kit has been built to comply with the Class Rules of the International Europe Dinghy?	Yes / No
1.5	Date hull/kit completed: Builder's Signature:..... Date:	

PART 2. HULL		
IDENTIFICATION MARKS		(Rule 2.6.1)
2.1	(a) Is the ISAF ICF Plaque fixed to the starboard side of the main bulkhead?	Yes / No
	(b) Is the maker's name shown on the inside face of the transom on the starboard side?	Yes / No

Measurement should not be undertaken until the builder has complied with Class Rule 2.6.1. (i) and (ii).

Invert the hull and set it up level both fore and aft and transversely. The transverse level shall be taken to be a horizontal line through the sheerlines at the transom station. Establish and mark the positions of the measurement stations on the centreline and at the rubbing strake each side.

2.2		HULL SHAPE					(Rule 3.2.3 and plans)	
Distance from AMPn to Station		Transom	No. 10	No.6	No. 3	No. 1	Stem Base line to sheer	
		0	1000	2000	2750	3250		
Base Line to hull on centreline	Maximum		70	22		151	555	
	Actual	160			49			
	Minimum		50	2		131	525	
Actual less minimum		10			10			
	<i>(Set templates at this height above hull surface on the centreline)</i>							
Surface of hull to template applicable for all boats measured till 1. March 2004	Maximum	20	20	20	20	20	15	
	Actual Max							
	Actual Min							
	Minimum	0	0	0	0	0	0	
Surface of hull to template mandatory for all boats measured after 1. March 2004	Maximum	16	16	16	16	16	15	
	Actual Max							
	Actual Min							
	Minimum	4	4	4	4	4	0	
Sheer to top edge of the template	Maximum	20	20	20	20	20	15	
	Actual-Port							
	Actual-Stbd							
	Minimum	0	0	0	0	0	0	

Measurer's signature & stamp: Date: ISAF ICF Plaque Number:

ITEM NO	RULE NO	MEASUREMENT	MIN. (mm)	ACTUAL	MAX. (mm)	
2.3	3.2.3 (v) (vii)	<u>Transom</u>				
		(a) Distance from AMPn to outer face of transom.	0		20	
		(b) Overall width of inwale, transom and rubbing strake.	--		40	
		(c) Depth of inwale.	--		25	
		(d) Is the top of the transom straight between sheer lines within a tolerance of $\pm 10\text{mm}$?		Yes / No		
	(e) Total area of holes and/or windows	0		0.02m ²		
	3.4.5 (iv) Rudder Fittings Meas. Diagram	<u>Rudder Fittings</u>	Are the fittings corresponding to the drawing?		Yes / No	
		(f) distance from top of transom to the top surface of the top fitting.			30	
		(g) distance between top surfaces of top and lower fitting.	133		135	
		(h) thickness lower fitting.			5	
(i) diameter of holes.		8				
(j) distance centre of holes to transom.		25				
2.4	3.1.1 3.2.3 (v)	<u>Stem</u>				
		a) Distance from AMPn to foremost part of the stem excluding the rubbing strake, applicable to all boot measured				
		(i) till 1.3.2004 (ii) after 1.3.2004	3340 3344		3360 3356	
		(b) Rubbing strake at stem.				
		(i) Width.			20	
		(ii) Depth.			25	
2.5	3.2.4 (iii) 3.2.3 (iv)	<u>Centreboard case slot and gasket recess</u>				
		Distance from base line to top of centreboard case at:				
		(a) forward end of slot	--		--	
		(b) aft end of slot.	--		--	
		(c) difference.			10	
2.6		Does the recess for the slot gasket:				
		(a) extend not more than 30mm from each side of the slot?		Yes / No		

Measurer's signature & stamp:.....Date:..... ISAF ICF Plaque Number:

ITEM NO	RULE NO	MEASUREMENT	MIN. (mm)	ACTUAL	MAX. (mm)
		(b) extend not more than 50mm from each end of the slot?		Yes / No	
2.7		Width of centreboard case slot, excluding any recess for gaskets.	18		22
2.8		Distance, measured along the keel, from the AMPt to centreboard case slot at:			
		(a) aft end.	1465		
		(b) forward end.			2005
2.9	3.2.3	<u>Hull concavities</u> Distance from hull surface to a straight edge of any length:			
		(a) aft of station 4 (2500mm from AMPn) Straight edge in fore and aft line.			1.0
		(b) at and forward of station 4 Straight edge in horizontal plane.			2.5
		(c) at and forward of station 4 Straight edge in any other plane.			18.0
<i>Turn the hull the right way up and reset to level in the fore and aft and transverse planes.</i>					
2.10	3.2.1	<u>Hull Skin</u>			
		(a) As far as can be established without destructive testing, the hull, including deck, side tanks, bulkhead, centreboard case and all structural components, is made of permitted materials?		Yes / No	
		(b) Is the thickness anywhere not more than 12mm?		Yes / No	
2.11	3.2.4(v) 3.2.3(v)	<u>Foredeck and Rubbing Strakes - (Measurement Diagrams)</u>			
		(a) Camber of the deck, relative to sheer height, at the main bulkhead.	42		62
		(b) Camber of the deck, relative to sheer height at station 3.			30
		(c) is the foredeck a fair profile, except for not more than one step of not more than 5mm, each side of the centreline?		Yes / No	
		(d) Are any pads for fittings not more than 20mm from the curve of the deck?		Yes / No	
		(e) Is there a painter fitting near the bow?		Yes /No	

Measurer's signature & stamp: Date: ISAF ICF Plaque Number:

ITEM NO	RULE NO	MEASUREMENT	MIN. (mm)	ACTUAL	MAX. (mm)
		(f) Rubbing strakes (i) Width at widest point. (ii) Depth at deepest point.			40 25
2.12	3.2.5	<u>Deck Ring and Heel Fitting for Mast</u> - (Mast Measurement Diagram and notes) (a) Distance from AMPn to the centre of the mast hole in the deck.	2680		2720
		(b) Internal diameter of the bearing surface of the deck ring from 10mm above to 10mm below deck level.	81		83
		(c) Height of top of rim of deck ring above the deck.			30
		(d) Height of deck, at the deck ring, above the surface of the heel fitting on which the mast rests.	445		455
		(e) Height of top of heel fitting above the surface on which the mast rests.	25		40
		(f) Internal diameter of the bearing surface of the heel fitting (up to 25mm above surface on which mast rests).	51		53
		(g) Minimum possible distance from the aftmost point of the mast rake adjustment system to the forward face of the main bulkhead.	500		
2.13	3.2.4(j)	<u>Main Bulkhead</u> (a) Distance from AMPn to the aft face of the main bulkhead.	1980		2020
		(b) Are there not more than 2 hatches, with watertight covers, in the main bulkhead?	0		2
		(c) If the hatch(es) has (have) an opening of diameter more than a circle of 150mm is there an arrangement for bolting, screwing or clipping in place?		Yes / No	
		(d) Are there no more than 2 drainholes with watertight plugs or non-return valves?		Yes / No	
		(f) Are there not more than 8 lead holes for control lines, each not more than 7mm in diameter and all within an area enclosed by lines 100mm from the floor, side tanks and line of the foredeck, and not giving access to a compartment which is part of the forward buoyancy unit?		Yes / No	

Measurer's signature & stamp:.....Date:..... ISAF ICF Plaque Number:

ITEM NO	RULE NO	MEASUREMENT	MIN. (mm)	ACTUAL	MAX. (mm)
2.14	3.2.4 (ii)	<u>Side Tanks</u>			
		(a) Do the side tanks extend from the main bulkhead to the inner face of the transom?		Yes / No	
		(b) Excluding fillets or fairings of not more than 25mm radius are the sides of the tanks straight?		Yes / No	
		(c) Distance between vertical faces, excluding any fairing or fillet, at:			
		(i) the inner face of transom.	640		680
		(ii) the main bulkhead.	720		760
		(d) Radius of curvature between the top and vertical faces	110		150
2.15	3.2.4(iii)	<u>Centreboard Case</u>			
		(a) Thickness of sides.			12
		(b) Is the forward end fixed to the main bulkhead over not less than 25mm of its depth measured from the top?		Yes / No	
		(c) Centreboard case capping.			
		(i) Width each side measured from slot.			65
		(ii) Depth, excluding aft end extension to floor.			65
		(d) Distance of the aft end of the case, at any level, from the slot excluding any step for mounting a mainsheet block?			100
		(e) Step for mainsheet block, if fitted.			
(i) Width.			100		
(ii) Distance from slot at any level			200		
(iii) Depth			100		
(f) Distance from upper, aft end of slot to the AMPn excluding board protection pads	1510				
(g) Distance from top of the case to the height of the sheerline at station 7	174			194	

Measurer's signature & stamp:.....Date:..... ISAF ICF Plaque Number:.....

ITEM NO	RULE NO	MEASUREMENT	MIN (mm)	ACTUAL	MAX (mm)
2.16	3.2.4 (iv)	<u>Thwart</u> - Measurement Diagrams and note 11 to plans (a) Is there a thwart connecting the upper aft end of the centreboard case to the vertical face of each side tank?		Yes / No	
		(b) Width.	60		150
		(c) Depth.	15		35
		(d) Thickness: (i) Wooden construction. (ii) GRP construction.	15 3		-- --
		(e) Optional stiffening webs (GRP thwarts only) If fitted: (i) width, measured from vertical face of side tank. (ii) radius between web and the underside of the thwart			45 100
2.17	3.2.4 (viii)	<u>Cockpit Floor</u> - Note 14 to plans (a) Floor stiffening battens (i) Maximum depth of any batten			30
		(b) Transom knee or support strut (i) Maximum distance of any part from the inner face of the transom. (ii) Maximum distance of any part from the centreline of the hull.			200 50
		(c) Hiking strap support battens (i) Maximum depth.			30
2.18	3.2.4 (ix)	<u>Fairings and Fillets</u> Except where permitted under Item 2.15(e) is the radius of any fairing or fillet between hull components not more than 25mm?		Yes / No	
2.19		<u>Buoyancy</u> (a) Does the forward buoyancy unit comply with rule 3.2.6?		Yes / No	
		(b) Do the buoyancy tanks satisfy the air test prescribed in rule 3.2.6(iii)? (i) Port tank. (ii) Starboard tank. (iii) Forward tank (if fitted).		Yes / No Yes / No Yes / No	

Measurer's signature & stamp:.....Date:..... ISAF ICF Plaque Number:.....

ITEM NO	RULE NO	MEASUREMENT	MIN. (mm)	ACTUAL	MAX. (mm)
2.20	3.2.5 3.2.7 3.2.8	<u>Hull Weight and Weight Distribution</u> <u>Weight of the hull</u> In dry and clean condition with only permitted fixed fittings in place			
		(a) without corrector weights fitted.	40 kg		
		(b) with corrector weights fitted.	45 kg		
2.21		<u>Corrector weights</u> (If hull is less than 45 kg)			
		(a) Total weight of correctors.			5 kg
		(b) Number of corrector weights.			
		(c) Is the weight and ISAF ICF number stamped or engraved on each weight?		Yes / No	
		(d) Are the weight(s) secured to the main bulkhead at not less than 200mm from the bottom of the hull?		Yes / No	
2.22		<u>Swing Test data</u> - (See swing test measurement diagram and notes), (Hull in condition as for weighing)			
		(a) Distance from hull centre of gravity to AMPn.	1500		
		(b) swing periods (seconds) (i) T1 (ii) T2			sec sec
		(c) Calculated radius of gyration.			
		(d) Calculated Moment of Inertia Hull weight x (radius of gyration) ²	35.5kgm ²		
		(e) (i) Distance from underside of hull to swing axis. (ii) Calculated height of cg below swing axis. (iii) Calculated height of cg above underside of hull on the centreline ((i) - (ii))	200		
		(f) Total weight of correctors.			kg
		(g) Are correctors fitted and marked as required by Rules 3.2.8 (iii) & (vii)?		Yes / No	

Measurer's signature & stamp:.....Date:..... ISAF ICF Plaque Number:

PART 6. MEASURER'S REMARKS		
Item No	Remark (Please identify the material by entering the production number.)	Measurer's signature, stamp and date.

PART 7. MEASURER'S DECLARATION	
I certify that having measured and/or weighed those parts of this boat for which measurement form item numbers are listed against my signature, to the best of my knowledge they comply with the Class Rules, except as noted in Part 6, Measurer's Remarks.	
7.1.1	Measurer's Name (Block Capitals):
7.1.2	(a) Are you an Official Measurer for the International Europe Dinghy as defined in Class Rule 2.4.1? Yes / No
	b) State name of Authority granting your official measurer status:
7.1.3	List the measurement form item numbers which you are certifying as having completed:
Measurer's signature and stamp: Date:.....	
7.2.1	Measurer's Name (Block Capitals):
7.2.2	(a) Are you an Official Measurer for the International Europe Dinghy as defined in Class Rule 2.4.1? Yes / No
	b) State name of Authority granting your official measurer status:
7.2.3	List the measurement form item numbers which you are certifying as having completed:
Measurer's signature and stamp: Date:.....	
7.3.1	Measurer's Name (Block Capitals):
7.3.2	(a) Are you an Official Measurer for the International Europe Dinghy as defined in Class Rule 2.4.1? Yes / No
	b) State name of Authority granting your official measurer status:
7.3.3	List the measurement form item numbers which you are certifying as having completed:
Measurer's signature and stamp: Date:.....	

PART 8. OWNER'S DECLARATION

To be completed by the owner before submitting the form to his/her National Authority (NA), or Europe Class National Association if the NA has delegated the task of certification, together with any certification fee that may be required. **(Please complete in BLOCK CAPITALS).**

If ownership changes the new owner shall complete a copy of Part 8 and send it together with the previous owner's measurement certificate to the certifying authority, together with any fee that may be required, requesting issue of a new certificate.

8.1	Owner's Name:
	Address:

	Club:
8.2	(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 undertake that any weight correctors will not be altered or removed from the hull, mast or boom except when done at an official reweighing under the supervision of an official Europe Class Measurer? Yes / No
Owner's signature:Date:	

**PART 9. MEASUREMENT CERTIFICATE
FOR USE BY THE CERTIFICATING AUTHORITY ONLY**

Part 9 of this form, when completed by a competent authority may be issued in lieu of a measurement certificate. The measurer is not a competent authority.

~~Class Rule 2.3.2(iii) requires that a certified copy of the measurement form shall be issued to the owner as part of the certification documentation.~~

9.1	Name of Certifying Authority:.....
	Official issuing measurement certificate:
9.2	Are you, on behalf of the Authority named in 9.1 above, satisfied that this boat has been measured by an official measurer (or measurer's) and as far as can be assessed from the information on this form, satisfied that the boat complies with the Class Rules? Yes / No
Signature:Date:	
Official Stamp:	