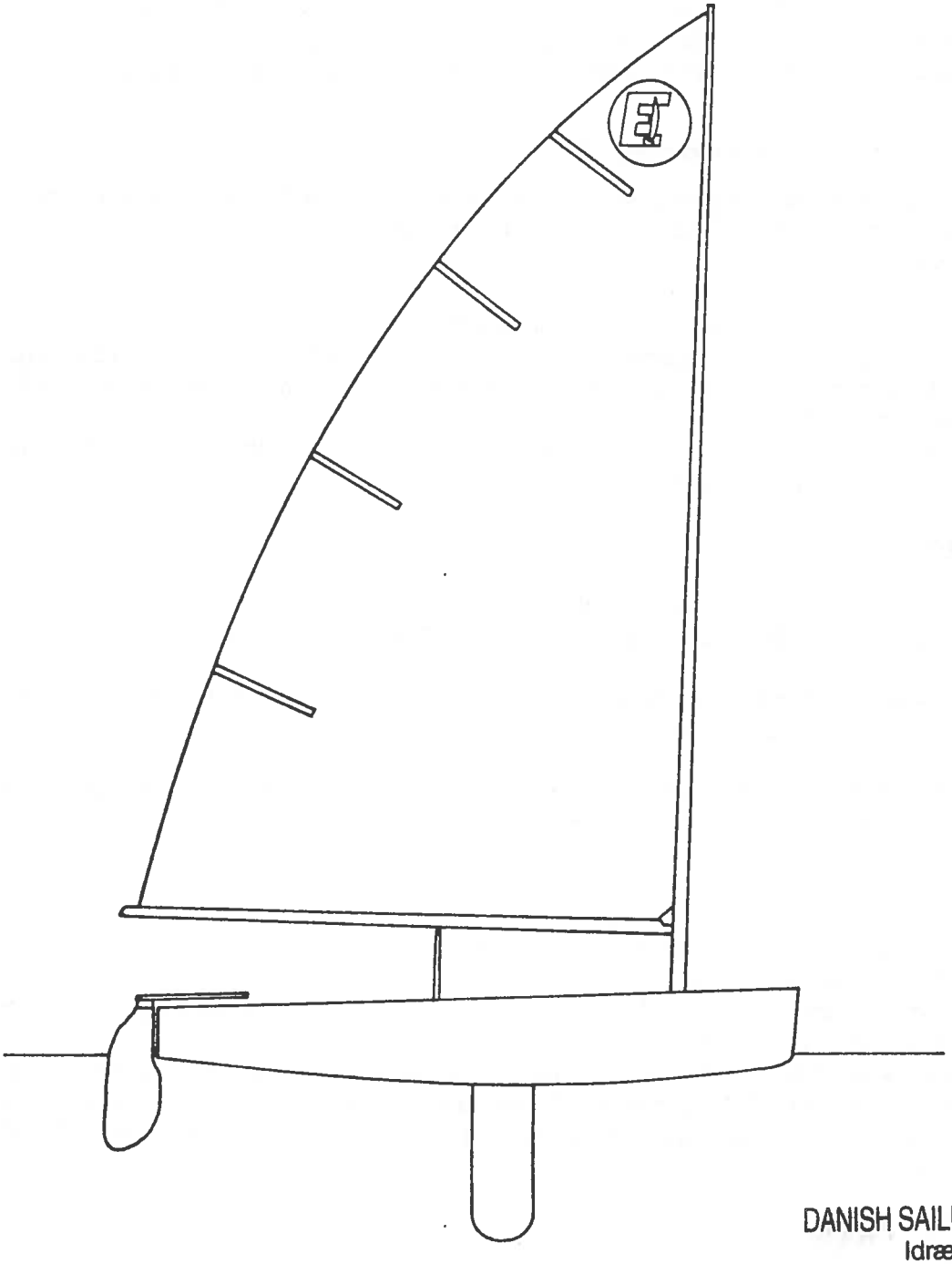
1995

INTERNATIONAL EUROPE CLASS MEASUREMENT FORM

I Y R U

Authority*: International Yacht Racing Union
27 Broadwall, Waterloo, London SE1 9PL, United Kingdom



DANISH SAILING ASSOCIATION
Idrættens Hus
DK-2605 Broendby

A.B

* The International Yacht Racing Union (IYRU) is not a National Authority (NA).

GENERAL NOTES AND INSTRUCTIONS

For the Builder and Owner

1. The builder shall pay the International Class Fee (ICF) to IECU. The IYRU will issue an IYRU ICF sticker, an ICF Receipt (ICFR) and a Measurement Form.
2. The builder shall fix the ICF sticker to the main bulkhead, to starboard of the centreline and shall complete Part 1 of this form.
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.
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 it, complete except for part 9, to his/her NA (or CA if the CA is the delegated certificating authority) together with any fee that may be required.
9. Parts 3,4,5 and 8 may be copied for the following purposes:
   (i) Parts 3, 4 and 5 - as a measurement record for replacement foils (centreboard and rudder blade), spars (masts and booms) and sails so that the owner may fulfil his/her responsibilities in compliance with IYRR 20.
   (ii) Part 8 - to provide an 'owner's declaration' for the certificating authority before that authority issues a new 'change of owner' certificate.

For the Measurer(s)

9. 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.
10. 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.
11. 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.
12. 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	IYRU PLAQUE NO: 10167	
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: WINNERBOATS ApS Address: KROGSBJERGVEJ 3 DK-5600 FAABORG DENMARK	
1.2	(a) Are you a professional boat builder licensed by the IYRU to build Europe Dinghies?	Yes/No
	(b) If not a Licensed Builder have you built another Europe dinghy in the last 12 months?	~~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: 1. MAR. 1996	

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PART 2 - HULL		
IDENTIFICATION MARKS (Rule 2.6.1)		
2.1	(a) Is the IYRU 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 Rule 2.6.1.

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 0	No. 10 1000	No.6 2000	No. 3 2750	No. 1 3250	Stem Base line to sheer
Base Line to hull on centreline	Maximum		70	22		151	555
	Actual	160	68	18	49	134	542
	Minimum		50	2		131	525
Actual less minimum		10	18	16	10		
	(Set templates at this height above hull surface on the centreline)						
Surface of hull to template	Maximum	20	20	20	20	20	15
	Actual Max	12	19	15	20	14	10
	Actual Min	8	4	5	6	1	3
	Minimum	0	0	0	0	0	0
Sheer to top edge of the template	Maximum	20	20	20	20	20	
	Actual-Port	12	6	8	7	9	
	Actual-Stbd	14	8	5	6	8	
	Minimum	0	0	0	0	0	

Measurer's Signature ..... IYRU ICF Plaque Number .....

ITEM NO	RULE NO	MEASUREMENT	MIN (MM)	ACTUAL	MAX (MM)
2.3	3.2.3(v) (vii)	Transom (a) Distance from AMPn to outer face of transom	0	19	20
		(b) Overall width of inwale, transom and rubbing strake	--	22	40
		(c) Depth of inwale	--	4	25
		(d) Is the top of the transom straight between sheerlines within a tolerance of ± 10mm?		Yes/~~No~~	
		(e) Total area of holes and/or windows	0	0.006	0.02m²
2.4	3.1.1 3.2.3(v)	Stem (a) Distance from AMPn to foremost part of the stem excluding the rubbing strake	3340	3357	3360
		(b) Rubbing strake at stem (i) Width (ii) Depth		18 20	20 25
2.5	3.2.4 (iii) 3.2.3 (iv)	Centreboard case slot and gasket recess Distance from base line to top of centreboard case at: (a) forward end of slot 266	--	266	--
		(b) aft end of slot 273	--	273	--
		(c) difference 7		3	10
2.6		Does the recess for the slot gasket: (a) extend not more than 30mm from each side of the slot?		Yes/~~No~~	
		(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	22
2.8		Distance, measured along the keel, from the AMPt to centreboard case slot at: (a) aft end	1465	1469	
		(b) forward end		1996	2005
2.9	3.2.3	Hull concavities 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		0	1.0
		(b) at and forward of station 4 Straight edge in horizontal plane		0	2.5
		(c) at and forward of station 4 Straight edge in any other plane		1.0	18.0

Measurer's Signature ..... IYRU ICF Plaque Number 1067

ITEM NO	RULE NO	MEASUREMENT	MIN (MM)	ACTUAL	MAX (MM)
Turn the hull the right way up and reset to level in the fore and aft and transverse planes.					
2.10	3.2.1	Hull Skin (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)	Foredeck and Rubbing Strakes - (Measurement Diagrams) (a) Camber of the deck, relative to sheer height, at the main bulkhead	42	52	62
		(b) Camber of the deck, relative to sheer height at station 3		28	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	
		(f) Rubbing strakes (i) Width at widest point (ii) Depth at deepest point		32 24	40 25
2.12	3.2.5	Deck Ring and Heel Fitting for Mast - (Mast Measurement Diagram and notes) (a) Distance from AMPn to the centre of the mast hole in the deck.	2680	2711	2720
		(b) Internal diameter of the bearing surface of the deck ring from 10mm above to 10mm below deck level	81	81	83
		(c) Height of top of rim of deck ring above the deck		24	30
		(d) Height of deck, at the deck ring, above the surface of the heel fitting on which the mast rests	445	446	455
		(e) Height of top of heel fitting above the surface on which the mast rests	25	34	40
		(f) Internal diameter of the bearing surface of the heel fitting (up to 25mm above surface on which mast rests)	51	51/53	53
		(g) Minimum possible distance from the aftmost point of the mast rake adjustment system to the forward face of the main bulkhead	500	670	

Measurer's Signature Henning Hansen DANISH SAILING ASSOCIATION **ISAF Plaque Number** 6167

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ITEM NO	RULE NO	MEASUREMENT	MIN (MM)	ACTUAL	MAX (MM)
2.13	3.2.4(i)	Main Bulkhead (a) Distance from AMPn to the aft face of the main bulkhead	1980	1999	2020
		(b) Are there not more than 2 hatches, with watertight covers, in the main bulkhead?	1	1	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~~	
		(e) 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~~	
2.14	3.2.4 (ii)	Side Tanks (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 (ii) the main bulkhead	 640 720	 650 749	 680 760
		(d) Radius of curvature between the top and vertical faces	110	14/12	150
		(e) Are any pads for fittings such that no part is more than 20mm from the curved surface on which it provides a flat area nor recessed into it?		Yes/~~No~~	
		(f) Is there at least one drainhole, with watertight plug(s), or hatch, with watertight cover(s), in each tank?		Yes/~~No~~	
2.15	3.2.4(iii)	Centreboard Case (a) Thickness of sides		10	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~~	

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ITEM NO	RULE NO	MEASUREMENT	MIN (MM)	ACTUAL	MAX (MM)
2.15	3.2.4(iii)	(c) Centreboard case capping. (i) Width each side measured from slot (ii) Depth, excluding aft end extension to floor (iii) Width of aft end extension, if any, at floor		62 30 145	65 65 150
		(d) Distance of the aft end of the case, at any level, from the slot excluding any step for mounting a mainsheet block?		80	100
		(e) Step for mainsheet block, if fitted. (i) Width (ii) Distance from slot at any level (iii) Depth		72 170 72	100 200 100
		(f) Distance from upper, aft end of slot to the AMPn excluding board protection pads	1510	1525	
		(g) Distance from top of the case to the height of the sheerline at station 7	174	185	194
		(h) Side support pieces if fitted. (Optional for cases made of wood only as an alternative to a fillet or fairing) (i) Width (ii) Depth		N/A Not	 25 25
2.16	3.2.4 (iv)	Thwart - 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	117	150
		(c) Depth	15	17/34	35
		(d) Thickness: (i) Wooden construction (ii) GRP construction	15 3	17 N/A	-- --
		(e) Optional strut below thwart and between aft end of case and side tanks. If fitted: (i) Width (ii) Depth		N/A N/A N/A	 65 30
		(f) 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		N/A N/A	 45 100

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ITEM NO	RULE NO	MEASUREMENT	MIN (MM)	ACTUAL	MAX (MM)
2.17	3.2.4 (viii)	Cockpit Floor - Note 14 to plans (a) Floor stiffening battens (i) Are there not more than 1 centreline and 4 other floor stiffening battens? (ii) Maximum depth of any batten (iii) Maximum width of centreline batten (iv) Maximum width of other battens (v) Minimum distance between battens	60	Yes/~~No~~ 27 57/60 4 mm	30 100 55
		(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		163 35	200 50
		(c) Hiking strap support battens (i) Are there not more than 2, (or 2 pairs if each pair is in the same transverse line), of transverse battens connected to the side tanks and/or floor? (ii) Maximum width (iii) Maximum depth		Yes/~~No~~ 45 12	55 30
2.18	3.2.4 (ix)	Fairings and Fillets 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		Buoyancy (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~~	
2.20	3.2.5 3.2.7 3.2.8	Hull Weight and Weight Distribution Weight of the hull In dry and clean condition with only permitted fixed fittings in place (a) without corrector weights fitted	40 kg	44.0	
		(b) with corrector weights fitted	45 kg	45.0	
2.21		Corrector weights (If hull is less than 45 kg) (a) Total weight of correctors		1.0	5 kg
		(b) Number of corrector weights		1	
		(c) Is the weight and IYRU ICF number stamped or engraved on each weight?		10167 Yes/~~No~~	

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ITEM NO	RULE NO	MEASUREMENT	MIN (MM)	ACTUAL	MAX (MM)
2.21 cntd		(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		**Swing Test data** - (See swing test measurement diagram and notes), (Hull in condition as for weighing) (a) Distance from hull centre of gravity to AMPn	1500	1562	
		(b) Swing periods (seconds) (i) T1 (ii) T2		2.788 3.117	 secs secs
		(c) Calculated radius of gyration		892	
		(d) Calculated Moment of Inertia Hull weight x (radius of gyration)^2)	35.5kgm^2	35.8	
		(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	810 592 218	
		(f) Total weight of correctors		NIL	kg
		(g) Are correctors fitted and marked as required by Rules 3.2.8 (iii) & (vii)?		~~Yes~~/~~No~~	

Note: If the rudder assembly is to be measured leave the hull in the level position until items 3.14 and 3.15 are completed.

Measurer's Signature ..... IYRU ICF Plaque Number .....

ITEM NO	RULE NO	MEASUREMENT	MIN (MM)	ACTUAL	MAX (MM)
PART 5 - SAIL		NATIONAL LETTERS: ..... AND SAIL NUMBERS:			
5.1	3.6	Sail (a) Maker's Name:			
		(b) IECU Sail Label Number:			
5.2		Is the sail, including reinforcement, made of the same woven cloth throughout?		Yes/No	
5.3		(a) Length of leech			5320
		(b) Width at half height			1680
5.4		Batten Pockets (a) Number of pockets	4		4
		(b) Do the batten pockets divide the aft edge of the sail into equal parts ± 50mm		Yes/No	
		(c) Sum of the length of the batten pockets			2400
		(d) Width, except at any local widening for inserting battens			50
		(e) Minimum distance of any pocket from the luff	150		
5.5		Primary Reinforcement Is the primary reinforcement not more than 295mm from: (a) The clew measurement point		Yes/No	
		(b) The tack measurement point		Yes/No	
		(c) The head measurement point		Yes/No	
		(d) The cunningham position		Yes/No	
5.6		Headboard Height of headboard Maximum distance from luff *Top width*	95		158 130 130
		No part of the sail or reinforcement is more than 5mm outside a straight line joining the top, aft corner of the top batten pocket and the aft head point?		Yes/No	
5.7		Window(s) (a) Total transparent area of window(s)			0.3m²
		(b) Shortest distance from any part of a window to any edge of the sail	150		
5.8		Insignia, National letter(s) and sail numbers (a) Does the Class insignia comply with the measurement diagram?		Yes/No	

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Measurer's Signature ..... **IYRU ICF Plaque Number** 10167

ITEM NO	RULE NO	MEASUREMENT	MIN (MM)	ACTUAL	MAX (MM)
		(b) Are the starboard side letter(s), number(s) and class insignia uppermost?		Yes/No	
		(c) Are the class insignia, National letter and sail numbers positioned as required by the measurement diagram notes 10 and 11?		Yes/No	
		(d) Do the letter(s) and number(s) comply with the following minimum dimensions? Height 295mm Width (except for I and 1) 200mm Thickness 40mm Spacing 60mm		Yes/No	
		(e) Does the style of letter and number comply with the requirements of IYRR 25?		Yes/No	
5.9		Makers Mark or Logo. Is the mark or logo such that it can be contained in a square of 150mm sides and is no part of it more than 400mm from the tack?		Yes/No	

PART 6 - MEASURER'S REMARKS

Item No	Remark	Signature

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): Henning Hansen

Measurer's Signature Henning Hansen **IYRU ICF Plaque Number** 1063

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? ..... HENNING HANSEN Official danish Measurer .....
7.1.3	List the measurement form item numbers which you are certifying as having completed:	
Signature: Henning Hansen ..... Date: 3-3-96		

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:	
Signature: ..... 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:	
Signature: ..... Date:		

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PART 8 - OWNER'S DECLARATION

NATIONAL LETTER(S): DEN

AND SAIL NUMBER(S): 1512

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 certificating authority, together with any fee that may be required, requesting issue of a new certificate.

8.1	Owner's Name: [redacted]	
	Address: [redacted]	
	Club: Esperyarde Sejlklub	
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

Signature: [redacted] Date: 11/4-96

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 Certificating 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: