International OPTIMIST Class

Builder's Declaration Form - GRP Hull

To be supplied by the builder with each hull and to be incorporated in the Registration Book. See Class Rules 2.2.2, 2.2.4 & 2.7.3.1.

Issued by IODA dated: 07/03/2009

Serial no. of this form: 46196

The undersigned, builder of theGRP Optimist hull with Hull Identification no:

0039A007507

allocated by IODA on: 5/1/1996

hereby declares that the Optimist hull with ISAF plaque no:

140915

complies in all respects with the current International Optimist GRP Plans, GRP Class Rules and their incorporated laminate specifications. I also confirm my responsibilities as prescribed in Class Rule 2.2.2.

Identification Numbers:

Gunwale/Mast Thwart	MidshipFrame/Daggerboard Case
0039A007508 G	**0039A007509 M**

Builders (company) name: Winner Optimist Aps

Address: Krogsbjergvej 6
5600 Faaborg
Denmark

Signature of builder: Marianne Bladel Date: 13-4-2010

This form is printed on security paper and issued by the International Optimist Dinghy Association (IODA), www.optiworld.org

International OPTIMIST Class

MEASUREMENT CERTIFICATE

This certificate is valid only when completed by a National Authority (MNA) of the ISAF or, where permitted by the MNA, a National Class Association.

Builder's Name: Winner Optimist Aps

Builder's Address: Krogsbjergvej 6
5600 Faaborg
Denmark

Date of plaque issue: 07/03/2009

ISAF Plaque Number: 140915

Weight of correctors (if any): gm
See "WEIGHT" on attached Hull Measurement Form

Measurer's Name: .....

Owner's Name: Ida Elfving

Owner's Address: Skuru skolväg
131 47 Nacka
Sverige

Sail Number: SWE 4421

Signed: Patrik Ehle Date: 2017-07-13

Authority: Svenska Seglarförbundet

SVENSKA SEGLARFÖRBUNDET

Notes to National Authorities:
Sail Numbers must be issued in sequence. Personal sail numbers (RRS Appendix G1.1(c)) are not permitted by Class Rules.
Where a National Authority prefers to issue its own certificate this shall be firmly fixed to this Registration Book.

Second Owner	Third Owner
Endorsed by National Authority	Endorsed by National Authority
Fourth Owner	**Fifth Owner**
Endorsed by National Authority	Endorsed by National Authority
Sixth Owner	**Seventh Owner**
Endorsed by National Authority	Endorsed by National Authority

International OPTIMIST Class

GRP Hull Measurement Form

*Authority: ISAF (International Sailing Federation)

IN ORDER TO OBTAIN A MEASUREMENT CERTIFICATE

1. The builder shall pay the International Class Fee to IODA which shall issue an International Class Fee receipt and an ISAF sticker to the builder.

2. The owner shall apply to his National Authority (NA) for a sail number enclosing the Registration Book with International Class Fee receipt and builders declaration.

3. A measurer officially recognised by a NA shall take all the measurements on this form. (4 pages). In addition the yacht is required to conform with all the class rules even though the measurements are not required on this form.

4. This form when completed, shall be submitted by the owner to his NA together with any registration fee required by the NA.

BEFORE SUBMITTING PLEASE MAKE SURE THAT THIS FORM IS PROPERLY COMPLETED

ISAF plaque no.: 14016 **Sail no.:**.....

Valid identification nos.:

hull : 003941007507 **H** **gunwale:** 003941007508 **G** **midship frame:** 003941007509 **M**

moulded in forward transom

Builder's name: Vikror Optimist **Date built:** 2010

Measurer's name: Henning Hansen **Date measured:** 1.7.2010

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GENERAL NOTES FOR MEASURERS

1. In the case of a discrepancy between this form and the Class Rules, the matter shall be referred to the ISAF.
2. All measurements are in millimetres unless otherwise stated.
3. For sheerline (point 4), radius-edge-zone (for panel flatness), and radius edge-zone line (for bottom width and length) measurements, the "Standardised Sheerline and Edge-zone Finder" shall be used. (SEE DRAWINGS MDGRP 1-4)
4. Where rule compliance on measurements in mm. is disputed, measurement shall be done at 23 (±5) degrees celsius.

Note: A measurer shall always measure all items of this form when measuring his first 5 hulls of any Identification number. Thereafter (preferably to be selected at random) only every 10th., 20th., 30th., etc. of that identification number (see "Declarations by Measurer", page 4 of this form).
IODA will inform National Associations whether any Identification number is invalidated . No measurement certificate shall be issued for hulls not having a valid identification number. (see Class Rule 2.7.3.1)

Item	Rule	Measurement	Min.(mm)	ACTUAL	Max.(mm)
A1	2.7.2	Is the IYRU building fee sticker indeed glued on the starboard side of the mast thwart bulkhead ?		Yes/No	
A2	2.7.3.1	Are hull ID no's. moulded in forward transom and flanges valid? Is builders declaration properly signed and completed?		Yes/No Yes/No	
A3	2.7.3.2	Is the registration mark indeed engraved 15 mm below the identification no. in the forward transom ?		Yes/No	
0	3.2.2.4	Deviation of aft transom		2	5
	plan	*BASE LINE TO CENTRE OF BOTTOM PANEL AT :*			
1		*250mm from aft face of transom (77.7)*	75		80
2		*500mm from aft face of transom (53)*	51		56
3		*1005mm from aft face of transom (36.6)*	34		39
4		*1500mm from aft face of transom (61.5)*	59		64
5		*1800mm from aft face of transom (98.5)*	96		101
6		*1997 mm from aft face of transom (133.7)*	131		136
7	plan	a) Distance from aft face of transom to aft end of daggerboard slot (1036)	1034	1035	1039
	3.2.2.10	b) Length of daggerboard slot (330)	326	331	334
	3.2.2.11	c) Basic width of daggerboard slot (17) See also CR 3.2.6.1	16	17	18
8	plan	*Length of bottom. Distance from aft face of aft transom to edge-zone line at edge of forward transom (2146)*	2143		2150
9		Base line to highest part of gunwale assembly at aft transom centreline (433.6)	431	434	436
10		Base line to highest part of gunwale assembly at forward transom centreline (473.1)	471	474	476
		WIDTH OF BOTTOM PANEL BETWEEN EDGE-ZONE LINES.			
11		*Width of bottom at aft transom (833.3)*	831		836
12		*Width of bottom at 250mm from aft face of transom (911.9)*	909		914
13		*Width of bottom at 500mm from aft face of transom (973.6)*	971		976
14		*Maximum width of bottom panel.*			1010
15		*Width of bottom at 1005mm from aft face of transom (995.2)*	993		998
16		*Width of bottom at 1500mm from aft face of transom (876.4)*	874		879
17		*Width of bottom at 1800mm from aft face of transom (706.4)*	704		709
18		*Width of bottom at 1997mm from aft face of transom (559.7)*	557		562
19		*Width of bottom at edge-zone line of forward transom (440.1)*	438		443
20	3.2.2.8	Maximum clearance from bottom panel of 300mm straight edge parallel to boat's centreline		O/C	4
		Maximum clearance from bottom panel of 150mm straight edge parallel to boat's centreline. No hollows allowed.		O/C	2
21	3.2.2.6	Do curve of bottom and side panels and Bottom: (a:		Yes/No	
	3.2.2.7	bow and aft transoms Side panels: (b:		Yes/No	
	3.2.2.9	comply with class rules? Bow transom: (c:		Yes/No	
	3.2.2.9	(On bottom no hollows allowed) Aft transom: (d:		Yes/No	

PLEASE TURN HULL

Page 2/4 Measurer's Signature for this page: ..... **Plaque Number:** 140915

Item	Rule	Measurement	Min.(mm)	ACTUAL	Max.(mm)
22	3.2.6.1.f	Horizontal movement of mast at step and mast thwart		2	3
23	plan	Beam at top of aft transom (970.2)	968		973
24		Beam at 250 mm from aft face of transom (1055.1)	1053		1058
25		Beam at 500 mm from aft face of transom (1109.2)	1106		1113
26		Curve of top of aft transom (30.6)	27		35
27		Beam at 1005mm from aft face of transom (1121.8)	1118	1121	1125
28		Beam at 1500 mm from aft face of transom (1010.6)	1007		1014
29		Beam at 1800 mm from aft face of transom (881.4)	878		885
30		Beam at 1997 mm from aft face of transom (770.0)	768	771	773
31		Beam at top of forward transom (563.8)	561		566
32		Curve of top of forward transom (23.1)	20		28
33	3.2.6.1(a)	Distance of centre of fixing points for mainsheet blocks to forward face of aft transom (786 &894)	781 889	788 890	791 899
34	plans	Position of centre of fixing points for hiking straps. Distance between fixing points on midship frame(360) Height of these fixing points above inside bottom panel (max30) Aftmost fixing point on centre line on inside bottom panel, distance to forward face of aft transom	355	360 26 50	365 30 80
35	plan	Distance from aft face of aft transom to aft face of midship frame, measured at midship frame topside height (1005)	1003	1007	1008
36		Distance from aft face of aft transom to forward upper end of daggerboard slot. (1366)	1364	1366	1369
37		Distance from aft face of aft transom to aftmost upper end of daggerboard slot (1036)	1034		1039
38		Distance from aft face of aft transom to centre of mast hole in mast thwart (1997)	1994	1996	1999
39	3.2.2.5	Overall length at point 4.(2300)	2293	2300	2307
40	plan	Limber holes in midship frame and mast thwart bulkhead.		~~OK / NOK~~	
41	plan	Height at top of gunwale assembly above mast thwart top side (27, at X1997)	25	28	30
42		Height of top of gunwale assembly above bearing surface of mast step (245.0)	240	248	250
43	***	Spare. Item number not used	**********	*********	*********
	plan	HEIGHT OF TOP OF GUNWALE ASSEMBLY BELOW UPPER BASE LINE (To be measured at hull centreline)			
44		At 1997 mm from aft face of transom (60.7)	58	60	63
45		At 1800 mm from aft face of transom (69.2)	67		72
46		At 1500 mm from aft face of transom (79.7)	77		82
47		At 1005 mm from aft face of transom (92)	90	92	95
48		At 500 mm from aft face of transom (96.6)	94		99
49	3.2.2.10 plan	(a) Is daggerboard case top side parallel to upper base line? (max. deviation 5) (b) Depth of aft end of daggerboard slot to underside of bottom panel (307.9)	304	3 307	5 312
50	plan	Distance between daggerboard case top side and the midship frame top side (96)	94		99

Page 3/4 Measurer's Signature for this page: HH **Plaque Number:** 140815

Item	Rule	Measurement	Min.(mm)	ACTUAL	Max.(mm)
51	*plan*	*Height of midship frame top forward side.(40)*	*38*	~~ ~~	*43*
52	**3.4.5.1**	**Distance between bearing lines of rudder gudgeons**	**200**	209	
53		**Distance between top of gunwale at aft transom and bearing line of top rudder gudgeon**		51	**55**
54	*plan*	*Shape and dimensions of openings in dagger board case and mast thwart bulkhead*		~~*OK/NOK*~~	
55	*3.2.2.12*	*Radius at outside edges of hull. (10 =+0/-1)*	~~*9*~~		*10*
56	*plan*	*Does shape of the gunwales and gunwale corners comply with plans. (use template)*	~~*Yes/No*~~		
57	*3.2.3.2*	*Thickness of laminates/walls*		~~*OK/NOK*~~	
58	*****	*Spare. Item number not used*	*************	************	************
59	**3.2.7.1** **3.2.7.3**	**Do buoyancy arrangements comply with class rule?** **Content of each buoyancy bag in litres (45 litres)** **Are buoyancy bags made of strong fibre-reinforced material, and each secured by not more and not less than 3 straps.** **Width of straps (45)**	 **40 litres** **39**	**Yes/~~No~~** 45 **Yes/~~No~~** 45	 **50 litres** **51**

WEIGHT

60	**3.2.7.1.**	**Weight of each inflated buoyancy bag in grams.(200)**	**200gr.**	250	
61	**3.2.8.1**	**(a) Weight of hull as specified in CR 3.2.8.1 i.e. excluding buoyancy bags and correctors if any**	32 kg	34.9	
	3.2.8.2	**(b) Weight of correctors if weight of hull, including buoyancy bags, is less than 35 kg**		0	3 kg

Declarations by the measurer:

I certify that I have measured and weighed this hull and that, to the best of my knowledge, this hull complies with the Class Rules, Plans and this Measurement form, and I have found no reason to doubt the builder's declaration that this hull complies with the prescribed GRP materials, laminate specifications and lay-up order, except as stated below.*

I have checked and measured the items on the table of this form printed in bold letters, and 'crossed out' all other items not measured by me.*

* Delete as applicable (see page 1 of this form).

Measurer's comments:..

....

....

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....

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....

....

Measurer's Signature: ....HH....................................

Measurer officially recognised by: DENMARK.................... Date: 1.4.2010.........

I certify that I have witnessed a satisfactory buoyancy test (see Rule 3.2.7.5.)

Signature: ....

Position: .... Date:.....................

Measurement Record of Equipment Used With OPTIMIST

Sail Number: ______________________

Plaque Number: ______________________

Identification Number: ______________________

Notes: individual certificates for each item of equipment shall be produced on demand.
Buoyancy test may be witnessed by any club or class officer

	Sail	Mast	Boom	Sprit	Rudder	Dagger	Buoyancy
Serial Number							
Date							
Measurer's Initials							
Serial Number							
Date							
Measurer's Initials							
Serial Number							
Date							
Measurer's Initials							
Serial Number							
Date							
Measurer's Initials							
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Measurer's Initials							
Serial Number							
Date							
Measurer's Initials							

INTERNATIONAL OPTIMIST CLASS
Sail Measurement Form
Only page 1 need be completed if the Optimist has not yet been allocated a sail number.

Sailmaker's name: _____ Date manufactured: _____

Sail button number: _____ Date measured: _____

Owner's Name: _____

Measurer's Name IN BLOCK CAPITALS: _____

Sails must be measured by an independent measurer (See CR 2.5.3)

Notes: 1. The measurer shall enter the actual measurements in the boxes where appropriate.
2. If the sail complies with all the requirements, the measurer shall sign and date it.
3. Cross out OK / Not OK as required.

ITEM	Dimension no [as per rule 6.4]	MEASUREMENT	Min. (mm)	Actual (mm)	Max. (mm)
1	2	Head length			1240
2	6	Luff length			1730
3	9	Upper edge of luff measurement band to throat point			600
4	8	Length of luff measurement band	60		
5	7	Width of luff measurement band	5		
6	5	Foot mid point to throat point			2130
7	29	Foot irregularity			15
8	3	Diagonal	2450		2580
9	1	Leech length			2800
10	22	Peak point to intersection of leech and lower edge of lowermost batten pocket	1850		1950
11	21	Peak point to intersection of leech and lower edge of uppermost batten pocket	900		1000
12	25	Deviation from straight line between lower corner of lower batten pocket and clew point	-10		5
13	24	Deviation from straight line between lower edge of top batten pocket and upper edge of lower batten pocket	-10		5
14	26	Deviation from straight line between the lower corner of the upper batten pocket and clew point	-5		20
15	23	Deviation from straight line between peak point and upper corner of upper batten pocket	-10		5
16	4	Half width			1700
17	19	Batten pocket lenght (outside)		Both OK / Not OK	460
18	20	Batten pocket width (outside)		Both OK / Not OK	40
19	14	Flutter patches			150
20	11	Primary reinforcements from corner measurement points		All OK / Not OK	205
21	12	Secondary reinforcements from corner measurement points		All OK / Not OK	615
22	13	Batten pocket patches at each end of batten pockets		Both OK / Not OK	150
23	15	Tabling width		All OK / Not OK	40
24	16	Seam width		All OK / Not OK	15
25	10	Thickness of woven ply anywhere in the body of the sail	0.15		
26	17	Trapezoidal window opening area			0.1 m2
27	18	Shortest distance from window to any edge of sail	150		
28	27	Space between luff eyelets	230	All OK / Not OK	260
29	28	Space between foot eyelets	270	All OK / Not OK	300

Measurer's signature: _____ Date: _____ Measurer recognised by: _____

Sail Measurement Form
National Letters and Sail Numbers
Only page 1 need be completed if the Optimist has not yet been allocated a sail number.

SAIL NUMBER: _____

Notes: 1. The measurer shall enter the actual measurements in the boxes where appropriate.
2. If the sail complies with all the requirements, the measurer shall sign and date it.
3. Cross out OK / Not OK as required.

ITEM	Dimension no [as per rule 6.5.1]	MEASUREMENT	Min. (mm)	Actual (mm)	Max. (mm)
1	1	Height	230	All OK / Not OK	240
2	2	Width (except "1" or "I")	150	All OK / Not OK	160
3	3	Width for M and W	160	All OK / Not OK	170
4	4	Thickness	30	All OK / Not OK	40
5	5	Space between adjoining numbers or letters	40	All OK / Not OK	50
6	6	Space between rows of numbers or letters	40	All OK / Not OK	50
7	7	Space between the national letter groups on opposite sides of the sail	100		150
8	8	Distance between the luff and the closest letter or number in each row	150		
9	9	Distance between lower edge of uppermost batten pocket and the national letter which is closest to the leech	40		50
10	RRS G1.2(b)	Minimum space between characters and edge of sail (leech)	45	All OK / Not OK	

Measurer's Name IN BLOCK CAPITALS: _____

Sails must be measured by an independent measurer (See CR 2.5.3)

Measurer's signature: _____ Date: _____ Measurer recognised by: _____

Second Measurement
If the sail letters/number is changed

SAIL NUMBER: _____

Owner's Name: _____

ITEM	Dimension no [as per rule 6.5.1]	MEASUREMENT	Min. (mm)	Actual (mm)	Max. (mm)
1	1	Height	230	All OK / Not OK	240
2	2	Width (except "1" or "I")	150	All OK / Not OK	160
3	3	Width for M and W	160	All OK / Not OK	170
4	4	Thickness	30	All OK / Not OK	40
5	5	Space between adjoining numbers or letters	40	All OK / Not OK	50
6	6	Space between rows of numbers or letters	40	All OK / Not OK	50
7	7	Space between the national letter groups on opposite sides of the sail	100		150
8	8	Distance between the luff and the closest letter or number in each row	150		
9	9	Distance between lower edge of uppermost batten pocket and the national letter which is closest to the leech	40		50
10	RRS G1.2(b)	Minimum space between characters and edge of sail (leech)	45	All OK / Not OK	

Measurer's Name IN BLOCK CAPITALS: _____

Sails must be measured by an independent measurer (See CR 2.5.3)

Measurer's signature: _____ Date: _____ Measurer recognised by: _____

Measurement Record of Equipment Used With OPTIMIST

Notes:
These forms shall be completed, after full measurement of the item concerned, ONLY by measurers recognised by National Sailing Authorities or, where permitted by the National Sailing Authority, by the National Class Association.

If any spar which has been measured is later sold separately from the hull, the related measurement form should be detached and supplied with the spar.

If you need to have new spars measured, additional measurement record forms can be downloaded from webpage:

www.optiworld.org/replacementforms.html

NOTE TO MEASURERS:
MEASUREMENT FORMS, showing items to be measured, can be downloaded from webpage:

www.optiworld.org/measurerforms.html

Maker and Identification Number:	Stamp (if used):
Signature of Measurer:	Mast
Name:	
Date:	

Maker and Identification Number:	Stamp (if used):
Signature of Measurer:	Boom
Name:	
Date:	

Maker and Identification Number:	Stamp (if used):
Signature of Measurer:	Sprit
Name:	
Date:	

Measurement Record of Equipment Used With OPTIMIST

Notes:
These forms shall be completed, after full measurement of the item concerned, ONLY by measurers recognised by National Sailing Authorities or, where permitted by the National Sailing Authority, by the National Class Association.

If any foil which has been measured is later sold separately from the hull, the related measurement form should be detached and supplied with the foil.

If you need to have new foils measured, additional measurement record forms can be downloaded from webpage:

www.optiworld.org/replacementforms.html

NOTE TO MEASURERS:
MEASUREMENT FORMS, showing items to be measured, can be downloaded from webpage:

www.optiworld.org/measurerforms.html

Maker and Identification Number:	Stamp (if used):
Signature of Measurer:	Dagger-board
Name:	
Date:	

Maker and Identification Number:	Stamp (if used):
Signature of Measurer:	Rudder
Name:	
Date:	

BUOYANCY TESTS

Buoyancy tests must be conducted at not more than twelve month intervals by a measurer or responsible club officer.

For the correct method of conducting a buoyancy test see CR 3.2.7 available by clicking Class Rules on webpage:
www.optiworld.org/

Date:	Signature:	Name & Organisation:
Date:	Signature:	Name & Organisation:
Date:	Signature:	Name & Organisation:
Date:	Signature:	Name & Organisation:

Buoyancy Tests