

# Copy of Certificate



## INTERNATIONAL FIVE POINT FIVE METRE CLASS 2015 CERTIFICATE OF RATING



Yacht's Name:	<b>Gold Fox</b>	Original name:	<b>Silver Fox</b>
Sail Number:	<b>NOR-63</b>	Original Sail Number:	<b>BAH-18</b> Club: <b>RSF</b>
Designer:	<b>Doug Peterson &amp; Ian Howlett</b>		
Builder:	<b>GREENE MARINE</b>	Building date:	<b>2004</b>
Owner:	<b>Tom Nysted</b>		
Owners address:	<b>Tangengata 24, 4950 Risør, Norway</b>		
Veritas R class certificate or Building Form (Number or Date)	Paul Handley for Int 5.5 class/ISAF		ISAF plaque number -

### RATING CERTIFICATE

This yacht has been measured by measurer(s) approved by this Authority and has been found to rate not more than 5.5 metres (classic boat 5.52m).

This certificate is dated	<b>25.6.2015</b>	<b>Risør</b>	
and its validity confirmed by measurer	<b>Matti Muoniovaara, Isaf 5.5m class measurer</b>	Signature	<b>David Chivers</b>
for (name of National Authority)	<b>Norwegian Sailing Federation</b>		
Valid until	<b>25.6.2017</b>	Sign. of designer or builder	
Supersedes (former certif. date)	<b>27.2.2008</b>	Sign. of owner or repres.	
Signature	<i>Matti Muoniovaara</i>		
Name	<b>Matti Muoniovaara, Isaf 5.5m class measurer</b>	Stamp of Authority	

<b>Rule 33</b>	DEFINITION OF BOAT : CLASSIC (built 1950-1969), EVOLUTION (built 1970-1993) AND MODERN
Date of first certif. issued	<b>2004</b>
Sub-class	<b>MODERN</b>

<b>weighing 23.5.2015, Risør Norway</b>

Item No	Rule No	Measurement	Min	Actual	Max
<b>HULL</b>					
1	23	Immersion checked in salt or fresh water ..... date		<b>salt</b>	
		Difference of immersion with salt water		<b>6mm</b>	
2	13	Weight of inside ballast placed at <b>mid-ship</b> ..... <b>127kg</b>		<b>127kg</b>	
	13	Weight of laminated inside ballast		<b>-</b>	
3	5	Beam	1.90m	<b>1.910</b>	
4	2	Max draft		<b>1.344</b>	1.350m
5	4	Freeboard at bow girth station		<b>0.721</b>	
6	4	Freeboard at midship mark	0.560m	<b>0.632</b>	
7	4	Freeboard at stern girth station		<b>0.553</b>	
8	4	Freeboard average (item 5+6+7)	0.628m	<b>0.635</b>	
9	14(iii)	Keel and ballast material (lead or iron)		<b>lead</b>	
10	14(iv)	Keel height of round at bottom		<b>n/a</b>	75mm
11	14(iv)	Maximum section width down to 1m below LWL	150mm	<b>152mm</b>	
12	15.7	Weight of keel, ballast and rudder		<b>-</b>	1485kg
12	8	Stern angle	1 in 5.5	<b>1 in 5.5</b>	
14	9	Round of beams (Max 7mm in 305 mm)		<b>3 in 305</b>	7mm
15	10	Tumblehome		<b>0.020</b>	
16		Deduct 2% of maximum beam		<b>0.038</b>	
17	10	Excess tumblehome (item 14-15)		<b>-0.018</b>	
18	11	Area of deck openings		<b>2.210</b>	2.25m <sup>2</sup>
19	12	Cockpit forward of L1 mark (valid till 1960)	1.75m	<b>2.220</b>	
20	11	Breadth of side decks	350mm	<b>360mm</b>	
<b>MISCELLANEOUS</b>					
21	29	Weight of anchor	11kg	<b>11.0kg</b>	13kg
22	29	Length of warp	30.0m	<b>30.5</b>	
23	23	I marks and L marks above water with yacht in measurement trim		<b>ok</b>	5mm
24	23	Top of I marks above water with yacht in racing trim		<b>ok</b>	50mm

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Item No	Rule No	Measurement	Min	Actual	Max
<b>SAILS AND RIGGING</b>					
25	16	Height of sail plan above covering board level		11.100	11.100m
26	18	Height of boom (black band) above covering board level	0.500m	0.675	0.800m
27	17	Height of foretriangle above covering board level (I)		8.880	8.880m
28	16	Base of foretriangle (J) (Deck black band to be checked) $0.5 \times J^2 \sqrt{S}$		2.670	2.670m
29	16	Min.headsail for measurement purpose		9.485	
30	19	Spinnaker halyard above forestay		100mm	100mm
31	19	Spinnaker halyard out from mast		30mm	30mm
32	19	Spinnaker breadth of half foot (Max = 1.25 x J)		3.338	1.25xJ
33	19	Spinnaker boom length & storm spinnaker breadth of half foot		2.670	J
34	19	Spinnaker boom material		carbon	
35	19	Spinnaker 1/2 girth (min 75% foot)		2.504	
36		Mast material <input type="text" value="carbon"/> boom material <input type="text" value="carbon"/>			
37	21	Mast diameter at 1/2 height of foretriangle	115mm	n/a	
38	21	Mast diameter at deck	109mm	n/a	
39	21	Mast diameter at jib halyard	92mm	n/a	
40	21	Mast diameter at top	58mm	n/a	
41	21	Forward-Aft mast profile measurement	125mm	128mm	
42	21	Athwartships mast profile measurement	75mm	80mm	
43	21	Constant section from heel to min 6m		ok	
44	21	Permanent set not exceeding 50mm between marks		40mm	
45	21	Tip weight of mast (old min 40 kg)	16kg	16kg	
46	22	Boom depth		148mm	152mm
47	22	Boom width	38mm	63mm	

<b>LENGTH FOR RATING</b>					
48	3	Overall length LOA		9.314	
49	3	Overhang Forward to L <sub>1</sub>		0.792	
50	3	Overhang Aft to L <sub>1</sub>		1.060	
51	3	Total Overhang (Subtract)		1.852	
52	3	MEASURED LENGTH (L <sub>1</sub> L <sub>1</sub> )		7.462	
53	3	Girth at Bow		0.707	
54	3	Twice vertical Height at Bow (Subtract)		0.550	
55	3	O at Bow	0.165m	0.157	
56	3	Girth at Stern		1.640	
57	3	Twice vertical Height at Stern (Subtract)		0.941	
58	3	O at Stern		0.699	
59	3	Add 1/3 O at Stern	0.234m	0.233	
60	3	Correct length		7.861	

<b>SAIL AREA FOR RATING</b>								
61	17	Largest headsail = 0.5 x luff	<input type="text" value=""/>	x	perpendicular LP <input type="text" value=""/>	9.485	9.880	
62	18	Mainsail = 0.5 x height (H)	<input type="text" value="10.425"/>	x	boom length (B) <input type="text" value="3.577"/>		18.645	
63		1/4 main sail girth 36% of B	<input type="text" value="1.288"/>		1/2 main sail girth 62% B <input type="text" value="2.218"/>			
64	2	Total sail area S (53+54)				26.5m <sup>2</sup>	28.525	29.0m <sup>2</sup>
65	2	Square root of S					5.341	

<b>DISPLACEMENT</b>								
66	13	Weight of yacht [kg]		23.5.15 date		1743kg	1980kg	2050kg
67	13	Displacement D=weight/1025				1.7m <sup>3</sup>	1.932	2.0m <sup>3</sup>
68	13	Cubic root of D					1.245	

<b>RATING</b>								
69	2	Rating calculated according to formula					5.499	
70	10	3x tumblehome excess (add to item 69 for final rating)					0.000	
71	2	<b>FINAL RATING</b>					5.499	5.500

Yacht's Name **Gold Fox** ex **Silver Fox** **Old Fox** International 5.5 metre class

Sail Number **NOR-63** ex **BAH-18**

This certificate is dated **25.6.2015**

Signature *Matti Muoniovaara*  
Matti Muoniovaara, Isaf 5.5m class measurer