



INTERNATIONAL
YACHT RACING
UNION

INTERNATIONAL FIVE POINT FIVE METRE CLASS

MEASUREMENT FORM AND CERTIFICATE OF RATING

Yacht's Name: *Africa* Sail Number: *Sail 117*
 Owner: *W. Vollenweider* Owner's Club: *SCS*
 Designer: *B. Chance, jura* Date Completed: *17.5.77*
 IYRU Plaque No:

Has designer's or builder's declaration been supplied: YES / NO (Delete whichever is applicable)

Condition of water when marks were sighted: *fresh* (State fresh or salt)
 Difference in immersion (Class Rule 23): *0.009* (metres)

Classification Society: *Bureau Veritas, Paris*
 Expiration date of Classification Certificate: *unlimited*

Measurements or partial re-measurements by National Authority Measurer, signature and date and Item No:

Signature	Date	Item No
..... <i>[Signature]</i> <i>20.5.95</i> <i>4-8, 12, 14-18</i>
.....
.....

Expiration date of Certificate of Rating: *29.3.97*
 Re-Rated:

I certify that the measurements entered on this certificate have been properly taken and that to the best of my knowledge and belief the boat complies with the Rules of the International 5.5 Metre Class.

Signature of Measurer: *[Signature]*
O. Weber
 CH-8802 Kilchberg/ZH

Signature of designer or builder:

Signature of owner or representative: *[Signature]*

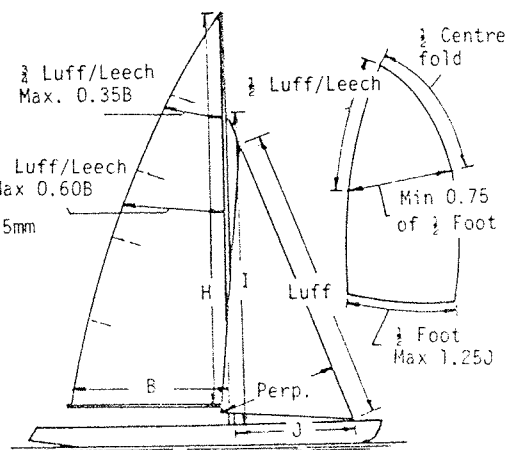
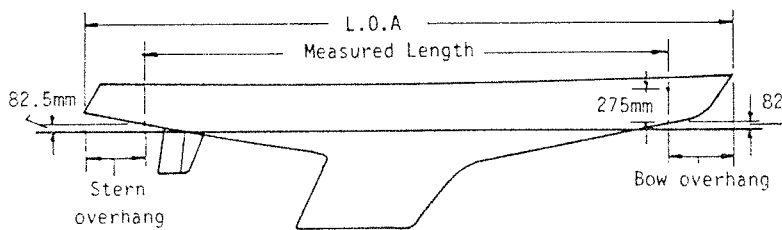
Certificate authorised by: Date:

For:
 (enter name of National Authority)

CT. FSV/USY - 26.06.95
[Signature]

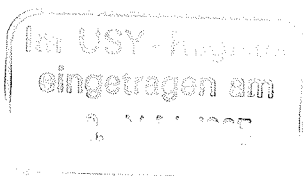
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Item No	Rule No	Measurement	Min	Actual	Max
1	23(e)	HULL Immersion checked in salt/fresh water (Date)		30.5.95	
2	13	Weight of inside ballast placed at <u>stern</u>		15kg	
3	5	Beam	1.90m	1.920	
4	2	Max. Draft		1.303	1.35m
5	4	Freeboard at bow girth station		0.727	
6	4	Freeboard at stern girth station		0.617	
7	4	Freeboard at midship mark		0.686	
8	4	Freeboard average (Item 5+6+7)	6.28m	0.660	
9	14(iii)	Keel and ballast materials (lead or iron)		lead	
10	14(iv)	Keel height of round at bottom	75mm	0.073	
11	14(iv)	Maximum section width down to 1m from LWL	150mm	0.175	
12	8	Stern angle	1 in 5.5 = 0.182	0.280	
13	9	Round of beams		nil	7mm in 305mm
14	10	Tumblehome		0.020	
15		Deduct 2% of max. beam		0.076	
16	10	Excess tumblehome (Item 16-15)		n/a	
17	11	Area of deck openings		2.23	2.25m ²
18	12	Cockpit forward of L1 mark	1.75m	2.395	
19	11	Breadth of side decks	35cm	0.360	



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Item No	Rule No	Measurement	Min	Actual	Max
		SAILS AND RIGGING			
20	16	Height of sailplan above covering board level		11.100	11.10m
21	18	Height of boom (black band) above covering board level	0.5m	0.500	0.85m
22	17	Height of fore triangle above covering board level (I)		8.880	8.88m
23	16	Base of fore triangle -(J) (Deck black band to be checked)		2.692	0.50 x \sqrt{S}
24	16	Min. Headsail for measurement purposes = 0.5 x I x J x 80%		9.562	
25	19	Spinnaker, halliard above forestay		0.050	10cm
26	19	Spinnaker halliard out from mast		0.030	3cm
27	19	Spinnaker breadth of half the foot		3.36 \sqrt{J}	1.25 x J
28	19	Storm spinnaker, breadth of half the foot		2.692	J
29	20	Spinnaker boom length		2.692	J
30	21	Mast diameter at 1/2 ht. of fore triangle, round mast	11.5cm	136 x 100	
31	21	Mast diameter at deck, round mast	10.9cm	136 x 100	
32	21	Mast diameter at jib halliards, round mast	9.2cm	134 x 89	
33	21	Mast diameter at top, round mast	5.8cm	72 x 62	
		(The athwartships diameter of oval masts may be reduced by 10% of the above, but the sectional areas shall not be less)			
34	21	Tip weight of mast	16kgs	19.5 kg	
35	22	Boom depth		0.101	15.2cm
36	22	Boom width	3.8cm	0.071	
		MISCELLANEOUS			
37	29	Weight of anchor	11kgs	12 kg	13kgs
38	29	Length of warp (min. diameter 9mm)	30m	30 m	
39	23	Top of I marks above water with yacht in racing trim		0.4	



Item No	Rule No	Measurement	Min	Actual	Max
		LENGTH L FOR RATING			
40	3	Overall length LOA		9.162	
41	3	Bow Overhang L ₁		1.020	
42	3	Stern Overhang L ₁		0.835	
43	3	Total Overhang (Item 41+42)		1.855	
44	3	Measured Length L ₁ (Item 40-43)		7.307	
45	3	Girth at bow		0.738	
46	3	Twice Vertical height at bow (= 0.55m)		0.550	
47	3	Bow girth difference (Item 45-46)	165mm	0.188	
48	3	Girth at stern		1.687	
49	3	Twice vertical height at stern		1.068	
50	3	Stern girth difference (Item 48-49)		0.619	
51	3	1/3 stern girth difference (50 divided by 3)	234mm	0.206 (2.0.206)	
52	3	Length L for rating formula (Item 44+47+51)		7.729	
		SAIL AREA FOR RATING			
53	17	Largest headsail = 0.5 x _____ (luff) x _____ (perp)	Item 24	9.562 = min	
54	18	Mainsail = 0.5 x 16.60 (H) x 3.665 (B)		19.425	
55	2	Total sail area S (53+54)	26.5m ²	28.987	29.0m ²
56		\sqrt{S}		5.384	
		DISPLACEMENT			
57	13	Weight of yacht (date when weighed) <u>30.3.95</u>		1.885	
58	13	Displacement D = weight ÷ 1025.21kg/m ³	1.7m ³	1.840	2.0m ³
59	13	$\sqrt[3]{D}$		1.225	
		RATING			
60	2	Rating calculated according to formula		5.498	
61	10	3 x tumblehome excess (add to Item 60 for final rating)		1/2	
62	2	FINAL RATING		5.498	

