

International 5.5 Metre Class Certificate of Rating

Yacht's Name: SARAH Sail Number: Z 170
 Owner: Rotschi Eduard Owner's Club: YC-Rapperswil
 Designer: Talbot SA, Yverles Date Completed: 30. März 1990
 Has designer's or builder's declaration been supplied: YES / NO (Delete whichever is applicable)

Condition of water when marks were sighted: State fresh or salt: fresh
 Difference in immersion (class rule 5): 0.006 (metres)

Classification Society: Bureau Veritas, Paris
 Expiration date of classification certificate: 4/9

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

Signature	Date	Item No
<u>USY - Verm.</u> <u>O. Weber</u>	<u>30.3.1990</u>	<u>1-62</u>
<u>CH-8802 Kilchberg/ZH</u>		

Expiration date of rating certificate: 29.3.1992
 Re-Rated:

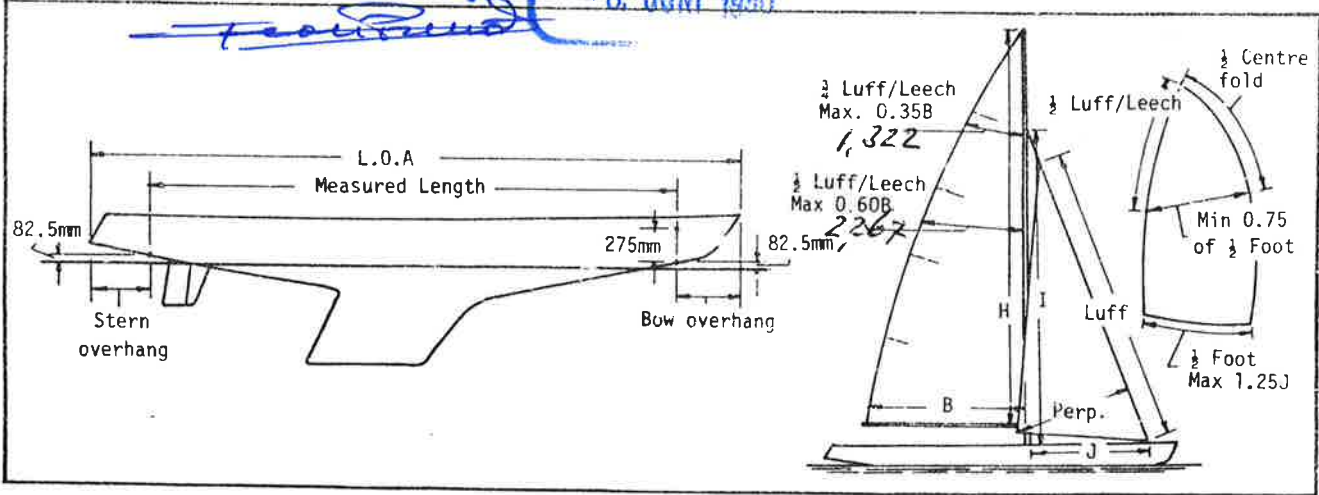
I certify that the measurements entered on this certificate have been properly taken and that to the best of my knowledge and belief the boat complies with the Rules of the international 5.5 Metre Class.

Signature of Measurer: Yachtwerft Portier AG
 Signature of designer or builder: 8706 Mellen
 Signature of owner or representative:

Certificate authorised by: Date:
 For: (enter name of National Authority)

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CT. USY - 06.06.90
Feuerhund



Item No.		Actual	Rule Limits	Rule No.
HULL				
1	Immersion checked in salt/fresh water	date 27.3.90		5,24
2	Weight of inside ballast placed at _____	40720		27
3	Beam	1.923	min. 1.90m	2,8
4	Max. Draft	1.346	max. 1.35m	2
5	Freeboard at bow girth station	788		4
6	Freeboard at stern girth station	574		4
7	Freeboard at midship mark	622		4
8	Freeboard average	0.641	min. 0.63m	4
9	Keel and ballast materials	lead	lead or iron	9(iii)
10	Keel height of round at bottom	∅	min. 75mm	9(iv)
11	Maximum section width down to 1m from LWL	0.157	min. 150mm	9(iv)
12	Stern angle	0.186	min. 1 in 5.5 = 0.182	11
13	Round of beams	∅	max. 7mm in 305mm	12
14	Tumblehome			13
15	Deduct 2% of max. beam			
16	Excess tumblehome	∅	3 x excess added to rating	13
17	Area of deck openings	2210	max. 2.25m ²	21
18	Cockpit forward of L1 mark	2.130	min. 1.75m	22
19	Breadth of side decks	0.400	min. 35cm	21
SAILS AND RIGGING				
20	Height of sailplan above covering board level	11.095	max. 11.10m	14
21	Height of boom (black band) above covering board level	870	max. 0.85m min. 0.50m	16
22	Height of fore triangle above covering board level (1)	8.880	max. 8.88m	15
23	Base of fore triangle (J) (Deck black band to be checked)	2.688	max. 0.50 x √5	14
24	Min. Headsail for measurement purposes = 0.5 x I x J x 80%	9.548		14
25	Spinnaker, halliard above forestay	0.100	max. 10cm	17
26	Spinnaker halliard out from mast	0.010	max. 3cm	17
27	Spinnaker breadth of half the foot	3.360	max. 1.25 x J	17
28	Storm spinnaker, breadth of half the foot	2.688	max. J	17
29	Spinnaker boom length	2.688	max. J	18
30	Mast diameter at ½ ht. of fore triangle, round mast	129/103	min. 11.5cm	19
31	Mast diameter at deck, round mast	137/103	min. 10.9cm	19
32	Mast diameter at jib halliards, round mast	115/96	min. 9.2cm	19
33	Mast diameter at top, round mast	71/69	min. 5.8cm	19
(The athwartships diameter of oval masts may be reduced by 10% of the above, but the sectional areas shall not be less)				
34	Tip weight of mast	19kg	min. 16kgs	19
35	Boom depth	0.112	max. 15.2cm	20
36	Boom width	0.073	min. 3.8cm	20

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Item No.		Actual	Rule Limits	Rule No.
MISCELLANEOUS				
37	Weight of anchor	12	max. 13kgs min. 11kgs	23
38	Length of warp (min. diameter 9mm)	30m	min. 30m	23
39	Top of I marks above water with yacht in racing trim	34		5
Item No.		Actual Measures		Rule Limits
LENGTH L FOR RATING				
40	Overall length L.O.A.		9.288	
41	Bow overhang to L ₁	1.130		
42	Stern overhang L ₂	1.932		
43	Total overhang	add	2.062	
44	Measured length L ₁		subtract 7.226	
45	Girth at bow	.726		
46	Twice vertical height at bow (=0.550m)	1.100		
47	Bow girth difference	subtract	.176	min. 0.165m (rule 3)
48	Girth at stern	1.830		
49	Twice vertical height at stern	0.982		
50	Stern girth difference	subtract 0.848		
51	1/3 stern girth difference	div. by 3	.283	min. 0.234m (rule 3)
52	Length L for rating formula		add 7.685	
SAIL AREA FOR RATING				
53	Largest headsail = 0.5 x _____ (luff) x _____ (perp)		9.548	min. see item 24
54	Mainsail = 0.5 x 10.245 (luff) x 3.778 (B)		19.353	min 26.5m ² (rule 2)
55	Total sail area S		add 28.901	max. 29.0m ²
56	\sqrt{S}		5.376	
DISPLACEMENT				
57	Weight of yacht (date when weighed) 30.390		1.810	
58	Displacement D = weight div. by 1025.21kg/m ³		1.766	min. 1.7m ³ (rule 2)
59	\sqrt{D}		1.209	max 2.0m ³
RATING				
60	Rating calculated according to formula		5.50	
61	3 x tumblehome excess		add	(rule 13)
62	FINAL RATING		5.50	