

International 5.5 Metre Class Certificate of Rating

Yacht's Name: SIRENE Sail Number: Z-174
 Owner: HORST PELZ Owner's Club: CVSNG
 Designer: MARC LANG Date Completed: April 6th 1991
 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 (MARKS FOR SALT)
 Difference in immersion (class rule 5): 0.007 (metres)

Classification Society: VERITAS
 Expiration date of classification certificate:

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

Signature	Date	Item No
.....
.....
.....

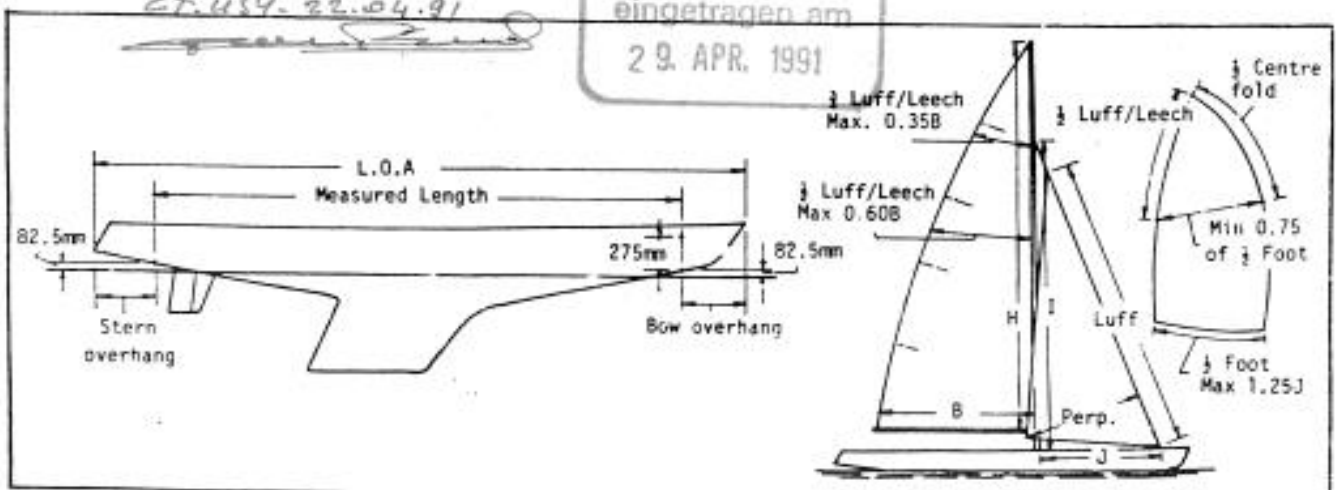
Expiration date of rating certificate:
 Re-Rated:

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: GR Perin
 Signature of designer or builder: Marc Lang **Ch. Naval R. Luthi & Fils S.A.**
 Signature of owner or representative: Horst Pelz **CH. 1299 GRANS VD**
 TEL 062 726 6839
 Fax 022 726 00 79

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

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Item No.	SIRENE Z-174 <i>GCT</i>	Actual	Rule Limits	Rule No.
	HULL			
1	Immersion checked in salt/fresh water	date	March 16th 1991	5,24
2	Weight of inside ballast placed at <u>100 mm. Fresh. Mast</u>	20 kg		27
3	Beam	2.090	min. 1.90m	2,8
4	Max. Draft	1.341	max. 1.35m	2
5	Freeboard at bow girth station	0.722		4
6	Freeboard at stern girth station	0.588		4
7	Freeboard at midship mark	0.634		4
8	Freeboard average	0.648	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	152	min. 150mm	9(iv)
12	Stern angle	1:3.6	min. 1 in 5.5	11
13	Round of beams	✓	max. 7mm in 305mm	12
14	Tumblehome	38 mm		13
15	Deduct 2% of max. beam	42 mm		
16	Excess tumblehome	→	3 x excess added to rating	13
17	Area of deck openings	2.25	max. 2.25m ²	21
18	Cockpit forward of L1 mark	2.63	min. 1.75m	22
19	Breadth of side decks	35	min. 35cm	21
	SAILS AND RIGGING			
20	Height of sailplan above covering board level	11.10	max. 11.10m	14
21	Height of boom (black band) above covering board level	0.80	max. 0.85m min. 0.50m	16
22	Height of fore triangle above covering board level (1)	8.88	max. 8.88m	15
23	Base of fore triangle (J) (Deck black band to be checked)	2.574	max. 0.50 x √5	14
24	Min. Headsail for measurement purposes = 0.5 x l x J x 80%	9.143		14
25	Spinnaker, halliard above forestay	80 mm	max. 10cm	17
26	Spinnaker halliard out from mast	5 mm	max. 3cm	17
27	Spinnaker breadth of half the foot	3.218	max. 1.25 x J	17
28	Storm spinnaker, breadth of half the foot	2.574	max. J	17
29	Spinnaker boom length	2.574	max. J	18
30	Mast diameter at ½ ht. of fore triangle, round mast	100 x 130	min. 11.5cm	19
31	Mast diameter at deck, round mast	100 x 130	min. 10.9cm	19
32	Mast diameter at jib halliards, round mast	95 x 120	min. 9.2cm	19
33	Mast diameter at top, round mast	75 x 75	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	17 kg	min. 16kgs	19
35	Boom depth	110 mm	max. 15.2cm	20
36	Boom width	75 mm	min. 3.8cm	20

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Item No.	SIRENE Z-174	GRP	Actual	Rule Limits	Rule No.
MISCELLANEOUS					
37	Weight of anchor		12 kg	max. 13kgs min. 11kgs	23
38	Length of warp (min. diameter 9mm)		✓	min. 30m ϕ 9 mm	23
39	Top of T marks above water with yacht in racing trim		✓		5
Item No.	Actual Measures			Rule Limits	
LENGTH L FOR RATING					
40	Overall length L.O.A.		9.197		
41	Bow overhang to L ₁	0.752			
42	Stern overhang L ₂	0.701	3		
43	Total overhang	add	1.454		
44	measured length L ₁		subtract	7.742	
45	Girth at bow	0.742	4		
46	Twice vertical height at bow (=0.550m)	0.550			
47	Bow girth difference	subtract	0.192		min. 0.165m (rule 3)
48	Girth at stern	1.650			
49	Twice vertical height at stern	1.010			
50	Stern girth difference	subtract	0.640		
51	1/3 stern girth difference	div. by 3	0.213		min. 0.234m (rule 3)
52	Length L for rating formula		add	8.170	
SAIL AREA FOR RATING					
53	Largest headsail = 0.5 x _____ (luff) x _____ (perp)		9.143		min. see item 24
54	Main sail = 0.5 x 10.300 (luff) x 3.370 (p)		17.357		min 26.5m ² (rule 2)
55	Total sail area S		add	26.5 m ²	max. 29.6m ²
56	\sqrt{S}			5.148	
DISPLACEMENT					
57	weight of yacht (date when weighed: <u>March 16th 1991</u>)		2.050		
58	Displacement D = weight div. by 1025.21kg/m ³			2.000	min. 1.7m ³ (rule 2)
59	$\sqrt[3]{D}$			1.260	max 2.0m ³
RATING					
60	Rating calculated according to formula		5.500		
61	3 x tumblehome excess		—		(rule 13)
			add		
62	FINAL RATING			5.500	

