

International 5.5 Metre Class

Certificate of Rating

Yacht's Name: NIDA Sail Number: Z 146
 Owner: H. SAURER Owner's Club: TYC
 Designer: WARREN MAIR Date Completed: 06. AUGUST 1984
 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: Veritas No 901052
 Expiration date of classification certificate: 1986, 1988, 1990

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

Signature	USY Vermeaser 34	Date	Item No
<u>Erich Zürcher</u>		<u>14.1.1991</u>	

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: Erich Zürcher **USY Vermeaser 34**

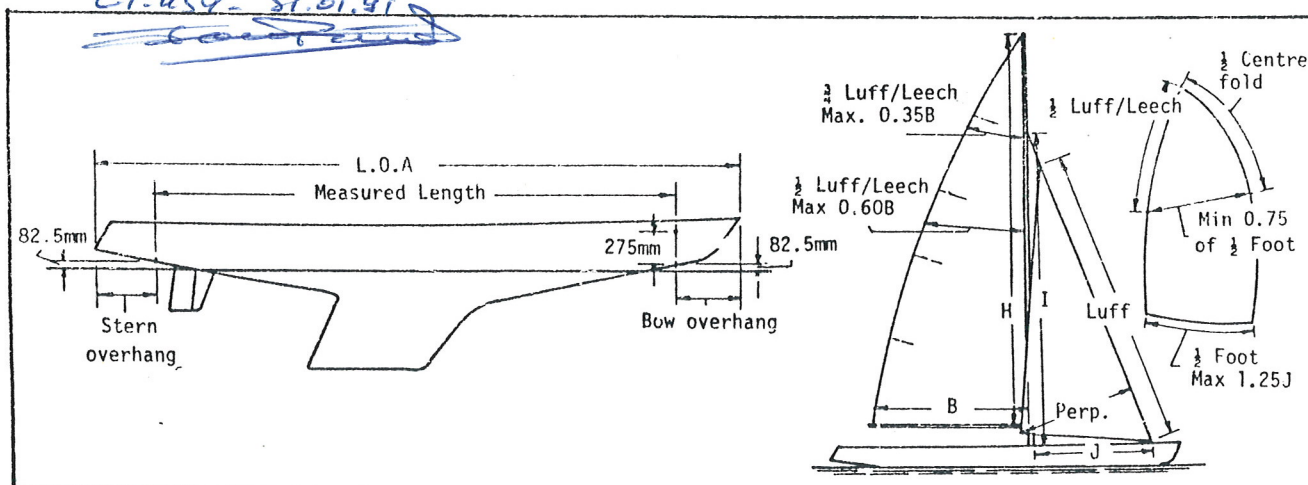
Signature of designer or builder:

Signature of owner or representative: H. Saurer

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Certificate authorised by: Date:

For: (enter name of National Authority)



Item No.		Actual	Rule Limits	Rule No.
	HULL			
1	Immersion checked in salt/fresh water	date 29.03.88		5,24
2	Weight of inside ballast placed at <u>keel</u>	5,8	kgs	27
3	Beam	1,928	min. 1.90m	2,8
4	Max. Draft	1,350	max. 1.35m	2
5	Freeboard at bow girth station	758		4
6	Freeboard at stern girth station	602		4
7	Freeboard at midship mark	525		4
8	Freeboard average	1,628	min. 0.63m	4
9	Keel and ballast materials	lead	lead or iron	9(iii)
10	Keel height of round at bottom	50	min. 75mm	9(iv)
11	Maximum section width down to 1m from LWL	150	min. 150mm	9(iv)
12	Stern angle	0,191	min. 1 in 5.5	11
13	Round of beams	none	max. 7mm in 305mm	12
14	Tumblehome	φ		13
15	Deduct 2% of max. beam	φ		
16	Excess tumblehome	φ	3 x excess added to rating	13
17	Area of deck openings	2,20	max. 2.25m ²	21
18	Cockpit forward of L1 mark	2,698	min. 1.75m	22
19	Breadth of side decks	1,405	min. 35cm	21
	SAILS AND RIGGING			
20	Height of sailplan above covering board level	11,100	max. 11.10m	14
21	Height of boom (black band) above covering board level	0,673	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)	2,692	max. 0.50 x √S	14
24	Min. Headsail for measurement purposes = 0.5 x I x J x 80%	9,562		14
25	Spinnaker, halliard above forestay	1,100	max. 10cm	17
26	Spinnaker halliard out from mast	1,005	max. 3cm	17
27	Spinnaker breadth of half the foot	3,365	max. 1.25 x J	17
28	Storm spinnaker, breadth of half the foot	2,690	max. J	17
29	Spinnaker boom length	2,692	max. J	18
30	Mast diameter at ½ ht. of fore triangle, round mast	100 x 144	min. 11.5cm	19
31	Mast diameter at deck, round mast	100 x 144	min. 10.9cm	19
32	Mast diameter at jib halliards, round mast	95 x 134	min. 9.2cm	19
33	Mast diameter at top, round mast	80 x 88	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	17,5	min. 16kgs	19
35	Boom depth	0,100	max. 15.2cm	20
36	Boom width	0,069	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)	30,0	min. 30m	23
39	Top of I 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.		9,307		
41	Bow overhang to L ₁	1,950			
42	Stern overhang L ₁	984			
43	Total overhang	add	1,934		
44	Measured length L ₁		subtract 7,373		
45	Girth at bow	669			
46	Twice vertical height at bow (=0.550m)	550			
47	Bow girth difference	subtract	0,165		min. 0.165m (rule 3)
48	Girth at stern	1606			
49	Twice vertical height at stern	1032			
50	Stern girth difference	subtract 574			
51	1/3 stern girth difference	div. by 3	0,234		min. 0.234m (rule 3)
52	Length L for rating formula		add L	7,772	

SAIL AREA FOR RATING					
53	Largest headsail = 0.5 x 8,389 (luff) x 2,280 (perp)		9,564		min. see item 24
54	Main sail = 0.5 x 10,427 (luff) x 3,728 (B)		19,436		min 26.5m ² (rule 2)
55	Total sail area S		add	29,000	max. 29.0m ²
56	$\sqrt{S}$			5,385	

DISPLACEMENT					
57	Weight of yacht (date when weighed) 01.08.90		1935,8		
58	Displacement D = weight div. by 1025.21kg/m ³			1,888	min. 1.7m ³ (rule 2)
59	$\sqrt[3]{D}$			1,236	max 2.0m ³

RATING					
60	Rating calculated according to formula		5,500		
61	3 x tumblehome excess		add		(rule 13)

62	FINAL RATING			5,500	
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