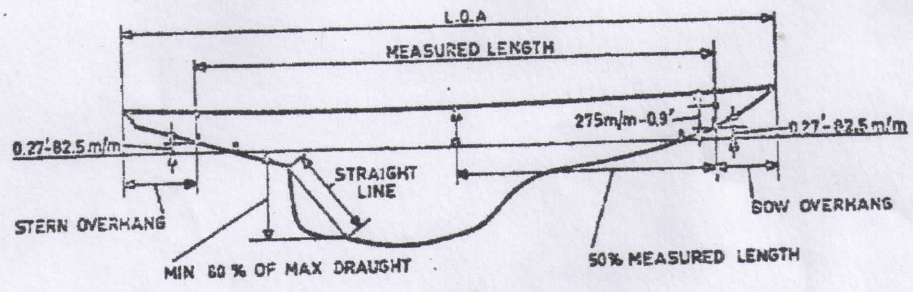
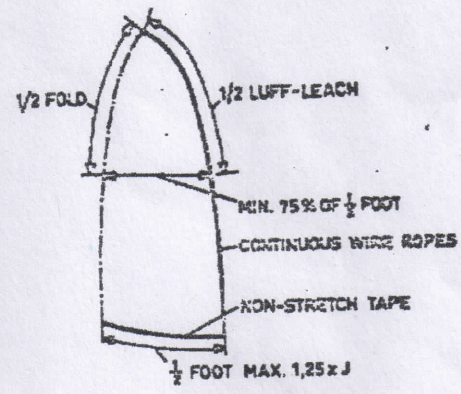
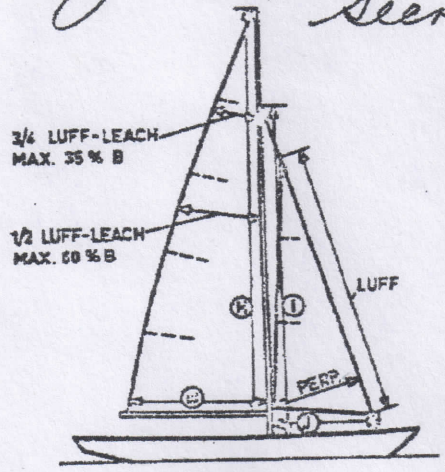


THE INTERNATIONAL 5.5 METRE CLASS CERTIFICATE OF RATING

Yacht's name "NEMESIS"	Classification society LLOYD'S
Permanent sail number 53 KA 27	Expiration date of classification certificate SEPTEMBER 1975
Owner MR. D. BEGGS	Measurements or partial re-measurements by N.A. Measure, signature & date 21-12-73 <i>Carl Boden</i>
Owner's club ROYAL PRINCE ALFRED YACHT CLUB	
Designer BJARNE BROS LTD NORWAY	
Builder BJARNE BROS LTD NORWAY	
Date completed 1962	
Condition of water when marks were sighted State fresh or salt SALT	
Difference in immersion (class rule 5)	(metres)
Has designer's or builder's declaration been furnished	
I declare that the particulars given on this certificate are correct at this date	Expiration date of rating certificate 21-12-75
Signature of designer or builder <i>D.L. Beggs</i>	
Signature of owner or his representative <i>D.L. Beggs</i>	Rated 21-12-73
(The designer or builder is only responsible for measurements at the date they are taken)	
Certificate authorised by <i>J. R. Shaw</i>	For AUSTRALIAN YACHTING FEDERATION (National Authority)

J. R. Shaw
Secretary. 21 DEC 1973



Printed for: International Yacht Racing Union
171 Victoria Street
London
S.W.1.

Issued 1st Jan. 1967.

RATING FORMULA: $0.9 \left(\frac{L\sqrt{S}}{12\sqrt{D}} + \frac{L+\sqrt{S}}{4} \right)$ not to exceed 5.5 m or 18.04 ft.

	Actual measures		Rule limits
LENGTH L FOR RATING			
Overall length L.O.A.		9.830	
Bow overhang to L ₁	1.098		
Stem overhang to L ₁	1.256		
Total overhang	add	2.354	
Measured length L ₁		subtract 7.476	
Girth at bow	0.715		
Twice vertical height at bow (=0.550 m or 1.804 ft.)	0.550		
Bow girth difference	subtract 1.165	0.165	min. 0.165 m or 0.541 ft. (rule 3)
Girth at stern	1.636		
Twice vertical height at stern	0.964		
Stern girth difference	subtract 0.672		
1/3 stern girth difference	div. by 3 224	0.234	min. 0.234 m or 0.768 ft. (rule 3)
Length L for rating formula		add 7.875	
SAIL AREA FOR RATING			
Largest headsail = 0.5 x _____ (luff) x _____ (perp)		9.579	min. see next page
Mainsail = 0.5 x 10.458 (M) x 3.670 (S)		19.172	min. 26.5 m ² or 285.0 sq. ft. (rule 7)
Total sail area S		add 28.751	max. 29.0 m ² or 312.0 sq. ft.
\sqrt{S}		5.362	
DISPLACEMENT			
Weight of yacht (date when weighed <u>6-11-73</u>)		2031 kg 4475 lb	
Displacement D = weight div. by 1025.21 kg/m ³ or 64 lb/cu. ft.		1.981	min. 1.7 m ³ or 60.27 cu. ft. (rule 7) max. 2.0 m ³ or 70.62 cu. ft.
$\sqrt[3]{D}$		1.256	
RATING			
Rating calc'd according to formula		5.500	
3 x tumble home excess		add	(rule 14)
FINAL RATING		5.500	

RULE PARTICULARS

	Actual ⁽¹⁾	Rule limits	Rule No.
HULL			
Immersion checked in salt/fresh water	date 5-11-73		5,27
Weight of inside ballast placed at ADJACENT TO MAST	2016 (18kg)		6,33
Beam	1.910 M	min. 1.90m or 6.23 ft.	7,9
Draft	1.348	max. 1.35m or 4.43ft.	7
Freeboard at bow girth station	0.756		
" at stern girth station	0.565		
" at midship mark	0.609		
" average	0.643	min. 0.63m or 2.06ft.	
Keel, ballast material	LEAD	lead or iron	10
" ht. of round at bottom	0.040	max. 75mm, or 3 in.	10
" width at max. section 1 metre below L.W.L.	0.156	min. 150mm, or 5.9in.	10
Stern angle	1 in 3.857	min. 1 in 5.5	12
Round of beams	0.024 in 305	max. 7mm, in 305mm, or 0.25in, in 12in.	13
Tumble home	0.014		14
2% of max. beam	0.038		
Excess tumble home	subtract →	3 x excess added to rating	14
Area of deck openings	2.142 m²	max. 2.25m ² or 24.25 sq. ft.	24
Cockpit forward of L1 mark	2.110	min. 1.75m or 5.74ft.	25
Breadth of side decks	0.390	min. 35cm or 1.15ft.	24
SAILS & RIGGING			
Height of sailplan above covering board level	11.100	max. 11.10m or 36.4ft.	16
" " boom (black band) above covering board level	0.642	max. 0.85m or 2.795ft.	17
" " fore triangle above covering board level (1)	8.280	max. 8.83m or 29.1ft.	16
Base of fore triangle (J) (Deck black band to be checked)	2.681	max. 0.50 x J	16
Min. headsail for measurement purposes = 0.5 x J x 80%	9.523		15
Spinnaker, holliard above forestay	0.090	max. 10cm or 3.9in.	20
" " out from mast	0.010	max. 3cm or 1.18in.	20
" breadth of half the foot	3.576	max. 1.25 x J	20
Storm spinnaker, breadth of half the foot	2.681	max. J	20
Spinnaker boom length	2.681	max. J	21
Mast diameter at 1/2 ht. of fore triangle, ^{oval} square mast	11.5 x 11.0 cm	min. 11.5cm or 4.52 in.	22
" " at deck " "	11.5 x 11.0 cm	min. 10.9cm or 4.30in.	22
" " at jib holliards " "	9.6 x 9.5 cm	min. 9.2cm or 3.62in.	22
" " at top " "	5.8 x 6.5 cm	min. 5.8cm or 2.26in.	22
(The athwartship diameters of oval masts may be reduced by 10% of the above, but the sectional areas shall not be less)			
Weight of mast with fixed fittings	40 kg	min. 40 kgc or 88 lbs	22
Centre of gravity of mast above covering board level	4.715	min. 38% of mast ht.	22
Boom depth		max. 15.2cm or 6in.	23
Boom width		min. 3.8cm or 1.5in.	23
MISCELLANEOUS			
Weight of anchor		max. 13kgs or 26.45lbs min. 11kgs or 24.24lbs	26
Length of warp		min. 30m or 16.4 fathoms	26
Top of l marks above water with yacht in racing trim			5