

International 5.5 Metre Class Certificate of Rating

Yacht's Name: "AURORA" Sail Number: KA-49
 Owner: M.C. RYAN Owner's Club: ROYAL PRINCE ALBERT
 Designer: B. LEXEN Date Completed: 22ND APRIL 1987
 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: SALT
 Difference in immersion (class rule 5): (metres)

Classification Society: LLOYD'S CERT. NO. 600100
 Expiration date of classification certificate: 30TH APRIL 1989

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

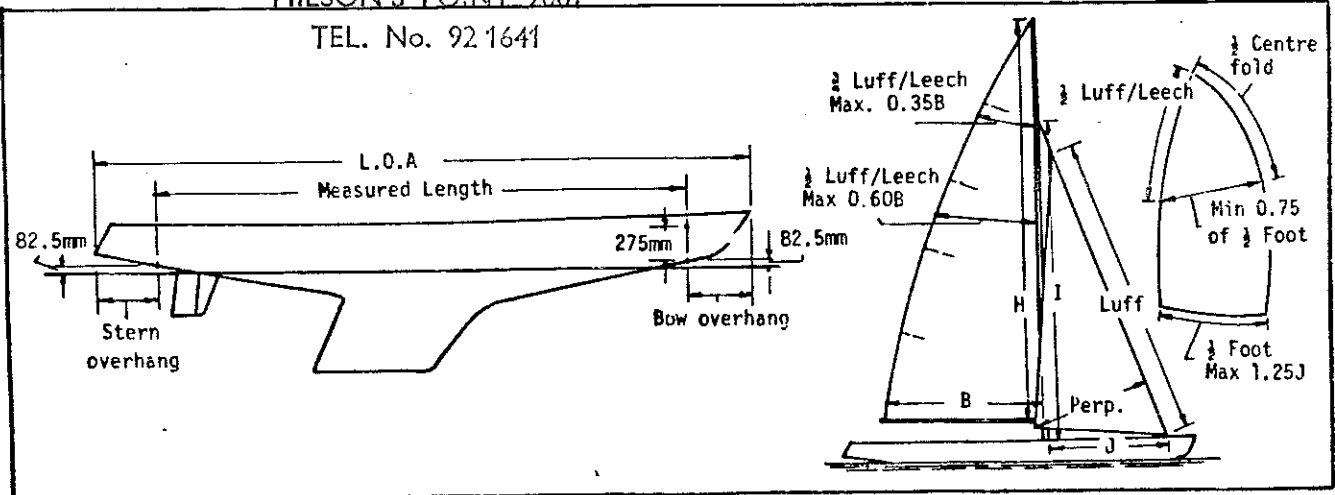
Signature	Date	Item No
.....	22ND APRIL 1987
.....
.....

Expiration date of rating certificate: 22ND APRIL 1987
 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: *D. Heywood*
 Signature of designer or builder: *Peter Jones*
 Signature of owner or representative: *Alan Ryan*

Certificate authorised by: *[Signature]* Date: 18 JUNE 1987
 For: AUSTRALIAN YACHTING FEDERATION (enter name of National Authority)
 33 PEEL STREET
 MILSON'S POINT 2061



Item No.		Actual	Rule Limits	Rule No.
MISCELLANEOUS				
37	Weight of anchor	11 Kgs	max. 13kgs min. 11kgs	23
38	Length of warp (min. diameter 9mm)	30 m	min. 30m	23
39	Top of J 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	1.190		
42	Stern overhang L ₁	.719		
43	Total overhang	add →	1.909	
44	Measured length L ₁		subtract 7.288	
45	Girth at bow	.774		
46	Twice vertical height at bow (=0.550m)	.550		
47	Bow girth difference	subtract ↓	.224	min. 0.165m (rule 3)
48	Girth at stern	1.591		
49	Twice vertical height at stern	.884		
50	Stern girth difference	subtract ↓	.707	
51	1/3 stern girth difference	div. by 3 ↓	.235	min. 0.234m (rule 3)
52	Length L for rating formula		add ↓	<u>7.747</u>
SAIL AREA FOR RATING				
53	Largest headsail = 0.5 x <u> </u> (luff) x <u> </u> (perp)		9.986	min. see item 24
54	Maincail = 0.5 x <u>10.245</u> (H) x <u>3.712</u> (B)		19.014	min 26.5m ² (rule 2)
55	Total sail area S		add ↓	29.000
	√S			<u>5.385</u>
DISPLACEMENT				
57	Weight of yacht (date when weighed) <u>22 APRIL 1987</u>		1925	
58	Displacement D = weight div. by 1025.21kg/m ³			min. 1.7m ³ (rule 2)
59	∛D			max 2.0m ³
				<u>1.234</u>
RATING				
60	Rating calculated according to formula		5.490	
61	3 x tumblehome excess		-	(rule 13)
			add ↓	
62	FINAL RATING			<u>5.490</u>

Item No.		Actual	Rule Limits	Rule No.
	MULL			
1	Immersion checked in salt/ fresh water <u>22ND APRIL 1987</u> date			5,24
2	Weight of inside ballast placed at <u>—</u>	NIL		27
3	Beam	2.024	min. 1.90m	2,8
4	Max. Draft	1.350	max. 1.35m	2
5	Freeboard at bow girth station	0.761		4
6	Freeboard at stern girth station	0.524		4
7	Freeboard at midship mark	0.607		4
8	Freeboard average	0.630	min. 0.63m	4
9	Keel and ballast materials	LEAD	lead or iron	9(iii)
10	Keel height of round at bottom	0.203	min. 75mm	9(iv)
11	Maximum section width down to 1m from LWL	0.156	min. 150mm	9(iv)
12	Stern angle	1.5:5.5	min. 1 in 5.5	11
13	Round of beams	3:305	max. 7mm in 305mm	12
14	Tumblehome	NIL		13
15	Deduct 2% of max. beam	—		
16	Excess tumblehome	—	3 x excess added to rating	13
17	Area of deck openings	2.120	max. 2.25m ²	21
18	Cockpit forward of L1 mark	2.366	min. 1.75m	22
19	Breadth of side decks	0.385	min. 35cm	21
	SAILS AND RIGGING			
20	Height of sailplan above covering board level	11.080	max. 11.10m	14
21	Height of boom (black band) above covering board level	0.835	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) (Decl: black band to be checked)	2.690	max. 0.50 x $\sqrt{5}$	14
24	Min. Headsail for measurement purposes = 0.5 x I x J x 80%	9.554		14
25	Spinnaker, halliard above forestay	0.100	max. 10cm	17
26	Spinnaker halliard out from mast	0.030	max. 3cm	17
27	Spinnaker breadth of half the foot	3.362	max. 1.25 x J	17
28	Storm spinnaker, breadth of half the foot	2.690	max. J	17
29	Spinnaker boom length	2.690	max. J	18
30	Mast diameter at 1/2 ht. of fore triangle, round mast	140x103	min. 11.5cm	19
31	Mast diameter at deck, round mast	140x103	min. 10.9cm	19
32	Mast diameter at jib halliards, round mast	116x097	min. 9.2cm	19
33	Mast diameter at top, round mast	074x063	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	18.75	min. 16kgs	19
35	Boom depth	0.104	max. 15.2cm	20
36	Boom width	0.073	min. 3.8cm	20



Lloyd's Register of Shipping

INTERIM CERTIFICATE OF CLASS

Date 30th April 1987

Office Sydney, N.S.W.

Certificate No. 600100

5.5 METRE I.R.C. YACHT "AURORA"

This is to certify that the 5.5 metre International Rating Class Yacht "AURORA" has been surveyed by me during construction by Hudson Boatbuilding at Sydney, N.S.W., and was found, on the above date, to be in accordance with the approved plans and the Society's Rules and Regulations for the construction and Classification of Yachts of the International Rating Class.

A Report is being forwarded to the Committee of Lloyd's Register of Shipping, London, recommending that the yacht be classed +R with record of D.S. 4/87.


A.M. SHEPHERD.
Surveyor to Lloyd's Register of Shipping

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