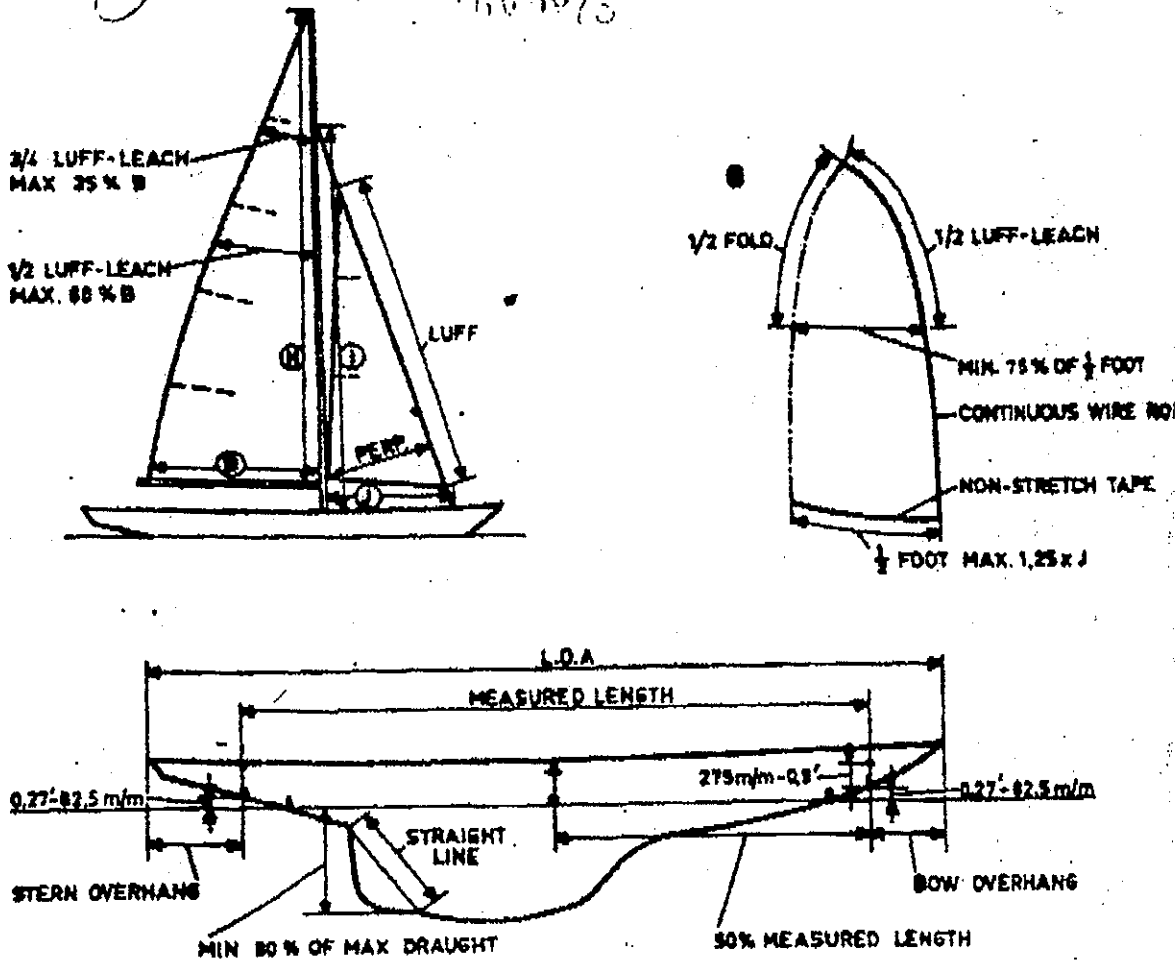


THE INTERNATIONAL 5.5 METRE CLASS CERTIFICATE OF RATING

Yacht's name "KINGS CROSS"	Classification society LLOYD
Permanent sail number 35 KA 24	Expiration date of classification certificate
Owner MR L. BRINGMANN	Measurements or partial remeasurements by N.A. Member, signature & date <i>Carl Norden</i> 15. 11. 74
Owner's club ROYAL FRINCE ALFRED YACHT CLUB	
Designer MR R. C. MILLER	
Builder MR K. BEASHELL	
Date completed 14.3.68	
Condition of water when marks were sighted SALT	
State fresh or salt	
Difference in immersion (class rule 5)	(metres)
Has designer's or builder's declaration been furnished YES	
I declare that the particulars given on this certificate are correct at this date	Expiration date of rating certificate 15-11-74
Signature of designer or builder AS PREVIOUSLY SUBMITTED	Rated
Signature of owner or his representative	
(The designer or builder is only responsible for measurements at the date they are taken)	
Certificate authorised by <i>J. A. ...</i>	(National Authority)



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.		8.227	
Bow overhang to L ₁	0.369		
Stern overhang to L ₁	0.411		
Total overhang	add	0.780	
Measured length L ₁		subtract 7.447	
Girth at bow	0.620		
Twice vertical height at bow (=0.550 m or 1.804 ft.)	0.550		
Bow girth difference	subtract -0.970	0.165	min. 0.165 m or 0.541 ft
Girth at stern	1.615		
Twice vertical height at stern	0.963		
Stern girth difference	subtract 0.652		
1/3 stern girth difference	div. by 3 -0.218	0.234	min. 0.234 m or 0.768 ft
Length L for rating formula	add	7.946	
SAIL AREA FOR RATING			
Largest headsail = 0.5 x _____ (luff) x _____ (perp)		9.580	min. see next page
Mainsail = 0.5 x <u>10.54</u> (M) x <u>3.685</u> (B)		19.420	min. 26.5 m ² or 285.0 sq (rule)
Total sail area S	add	29.0 m ²	max. 29.0 m ² or 312.0 sq
\sqrt{S}		5.385	
DISPLACEMENT			
Weight of yacht (date when weighed <u>14-3-68</u>)		2045.7 kg	
Displacement D = weight div. by 1025.21 kg/m ³ or 64 lbs/cu.ft.		4506 lbs	min. 1.7 m ³ or 60.27 cu. ft.
$\sqrt[3]{D}$		1.995 m	max. 2.0 m ³ or 70.62 cu. ft.
RATING			
Rating calc'd according to formula		5.491	
3 x tumble home excess		-	
FINAL RATING	add	5.491	(rule 14)

	Actual ^(x)	Rule limits	Rule N
HULL			
Immersion checked in salt/fresh water	2-11-72 date		5;27
Weight of inside ballast placed at	NIL	xx)	6;33
Beam	1.902	min. 1.90m or 6.23 ft.	7;9
Draft	1.844	max. 1.35m or 4.43ft.	7
Freeboard at bow girth station	0.778		
" at stern girth station	0.564		
" at midship mark	0.647		
" average	0.663	min. 0.63m or 2.06ft.	
Keel, ballast material	LEAD	lead or Iron	10
" ht. of round at bottom		max. 75mm. or 3 in.	10
" width of max. section 1 metre below L.W.L.	0.171	min. 150mm. or 5.9in.	10
Stern angle	1 in 5.28	min. 1 in 5.5	12
Round of beams	NONE	max. 7mm. in 305mm.	13
Tumble home	37 mm	or 00.25in. in 12in.	14
2% of max. beam	37 mm		
Excess tumble home	subtract →	3 x excess added to rating	14
Area of deck openings	2.229 m ²	max. 2.25m ² or 24.25 sq. ft.	24
Cockpit forward of L1 mark	1.829	min. 1.75m or 5.74ft.	25
Breadth of side decks	0.417	min. 35cm or 1.15ft.	24
SAILS & RIGGING			
Height of sailplan above covering board level	11.064	max. 11.10m or 36.4ft.	1c
" " boom (black band) above covering board level	0.527	max. 0.85m or 2.795ft.	17
" " fore triangle above covering board level (1)	8.859	max. 8.88m or 29.1ft.	16
Base of fore triangle (J) (Deck black band to be checked)	2.691	max. 0.50 x \sqrt{S}	16
Min. headsail for measurement purposes = 0.5 x I x J x 80%	9.505 m ²		15
Spinnaker, halliard above forestay	90 mm	max. 10cm or 3.9in.	20
" " out from mast	13 mm	max. 3cm or 1.18in.	20
" breadth of halt the foot	3.563	max. 1.25 x J	20
Storm spinnaker, breadth of halt the foot	2.691	max. J	20
Spinnaker boom length	2.691	max. J	21
Mast diameter at $\frac{1}{2}$ ht. of fore triangle, ^{oval} round mast		min. 11.5cm or 4.52 in.	22
" " at deck " "		min. 10.9cm or 4.30in.	22
" " at jib halliards " "		min. 9.2cm or 3.62in.	22
" " at top " "		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 kgs or 88 lbs	22
Centre of gravity of mast above covering board level	4.572	min. 38% of mast ht.	22
Boom depth	127 mm	max. 15.2cm or 6in.	23
Boom width	63 mm	min. 3.8cm or 1.5in.	23
MISCELLANEOUS			
Weight of anchor	25 lb	max. 13kgs or 26.45lbs min. 11kgs or 24.24lbs	26
Length of warp	30.0 M.	min. 30m or 16.4 fathoms	26
Top of I marks above water with yacht in racing trim			5