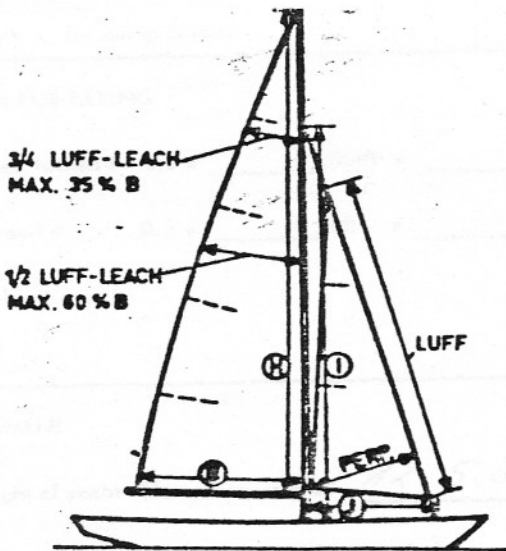
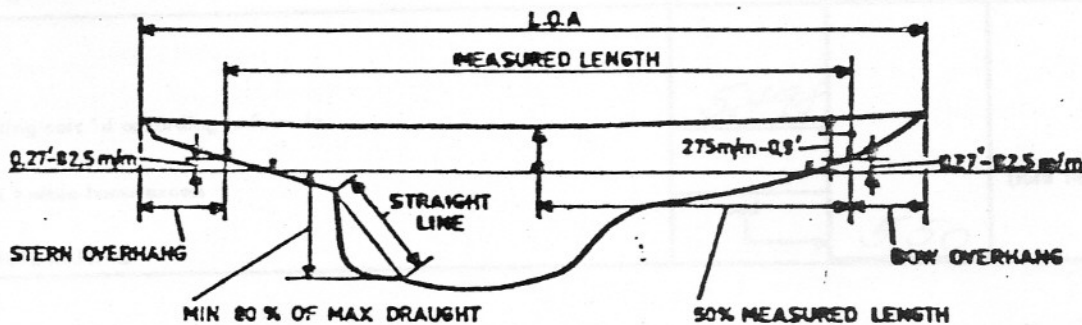
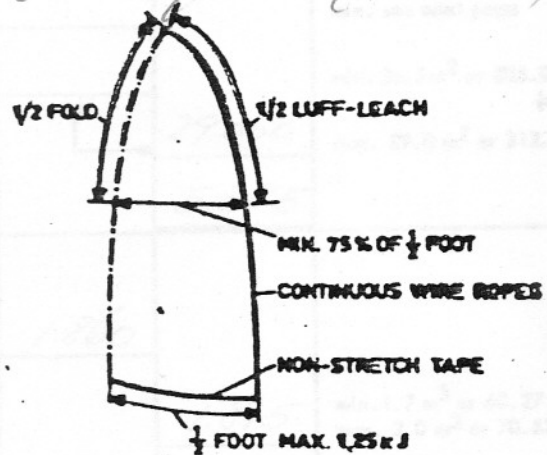


THE INTERNATIONAL 5.5 METRE CLASS CERTIFICATE OF RATING

Yacht's name	<i>Marotte</i>	Classification society	<i>Bureau Veritas, Paris</i>
Permanent sail number	<i>Z 125</i>	Expiration date of classification certificate	<i>May 1982</i>
Owner	<i>M. Schürch</i>	Measurements or partial remeasurements by N.A. Measurer, signature & date	
Owner's club	<i>YC Stäfa</i>		<i>USY - Verm.</i>
Designer	<i>Berret</i>		<i>O. Weber</i>
Builder	<i>P. Egger, St. Aubin</i>		<i>CH-8802 Kilchberg/ZH</i>
Date completed	<i>12.5.80</i>		
Condition of water when marks were sighted			
State fresh or salt	<i>fresh</i>		
Difference in immersion (class rule 5)	<i>8mm</i>	<i>5.50</i>	(metres)
Has designer's or builder's declaration been furnished	<i>yes</i>		
I declare that the particulars given on this certificate are correct at this date		Expiration date of rating certificate	<i>11.5.82 / 11.5.86</i>
Signature of designer or builder			
Signature of owner or his representative		Rated	
(The designer or builder is only responsible for measurements at the date they are taken)			
Certificate authorised by		for	(National Authority)



per original aux souf. a la banque (5000)



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.		9.116	
Bow overhang to L ₁	.963		
Stem overhang to L ₁	.843		
Total overhang	add	1.806	
Measured length L ₁		subtract 7.310	
Girth at bow	1.704		
Twice vertical height at bow (=0.550 m or 1.804 ft.)	.550		
Bow girth difference	subtract .154	.165 min	min. 0.165 m or 0.541 ft. (rule 3)
Girth at stem	1.655		
Twice vertical height at stem	.976		
Stern girth difference	subtract .679		
1/3 stern girth difference	div. by 3 .226	.234 min	min. 0.234 m or 0.768 ft. (rule 3)
Length L for rating formula		add 7.709	
SAIL AREA FOR RATING			
Largest headsail = 0.5 x _____ (luff) x _____ (perp)			min. see next page
Mainsail = 0.5 x _____ (H) x _____ (B)			min. 26.5 m ² or 285.0 sq. ft. (rule 7)
Total sail area S		add 29.000	max. 29.0 m ² or 312.0 sq. ft.
\sqrt{S}		5.385	
DISPLACEMENT			
Weight of yacht (date when weighed <u>12.5.80</u>)		1.860	
Displacement D = weight div. by 1025.21 kg/m ³ or 64 lb/cu. ft.		1.815	min. 1.7 m ³ or 60.27 cu. ft. (rule 7) max. 2.0 m ³ or 70.62 cu. ft.
$\sqrt[3]{D}$		1.220	
RATING			
Rating calc'd according to formula		5.498	
3 x tumble home excess			(rule 14)
FINAL RATING		add 5.50	

RULE PARTICULARS

	Actual ^{x)}	Rule limits	Rule No.
MULL			
Immersion checked in salt/fresh water	date 12.5.80		5;27
Weight of inside ballast placed at <u>off the end of cockpit</u>	20 kg.	xx)	6;33
Beam	1.928	min. 1.90m or 6.23 ft.	7;9
Draft	1.350	max. 1.35m or 4.43ft.	7
Freeboard at bow girth station	728		
" at stern girth station	571		
" at midship mark	609		
" average	1.908		
Keel, ballast material	0.636	min. 0.63m or 2.06ft.	
" ht. of round at bottom	lead	lead or iron	10
" width at max. section 1 metre below L.W.L.	nil	max. 75mm. or 3 in.	10
" stern angle	165	min. 150mm. or 5.9in.	10
" Round of beams	0.262	min. 1 in 5.5 = 0.182	12
" Tumble home	nil	max. 7mm. in 305mm.	13
" 2% of max. beam	0.020	or 00.25in. in 12in.	14
" Excess tumble home	0.039		
" Area of deck openings	subtract	3 x excess added to rating	14
" Cockpit forward of LI mark	2.204	max. 2.25m ² or 24.25 sq. ft.	24
" Breadth of side decks	2.260	min. 1.75m or 5.74ft.	25
	1.365	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	1.500	max. 0.85m or 2.795ft.	17
" " fore triangle above covering board level (1)	8.880	max. 8.88m or 29.11ft.	16
Base of fore triangle (J) (Deck black band to be checked)	2.692	max. 0.50 x J	16
Min. headsail for measurement purposes = 0.5 x I x J x 80%	9.564		15
Spinnaker, halliard above forestay	1.050	max. 10cm or 3.9in.	20
" " out from mast	1.010	max. 3cm or 1.18in.	20
" breadth of half the foot	3.365	max. 1.25 x J	20
Storm spinnaker, breadth of half the foot	2.692	max. J	20
Spinnaker boom length	2.692	max. J	21
Mast diameter at 1/2 ht. of fore triangle, round mast	104 x 145	min. 11.5cm or 4.52 in.	22
" " at deck	104 x 145	min. 10.9cm or 4.30in.	22
" " at jib halliards	104 x 145	min. 9.2cm or 3.62in.	22
" " at top	60 x 75	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	42 kg.	min. 40 kgs or 88 lbs	22
Centre of gravity of mast above covering board level	42%	min. 38% of mast ht.	22
Boom depth	1100	max. 15.2cm or 6in.	23
Boom width	1069	min. 3.8cm or 1.5in.	23
MISCELLANEOUS			
Weight of anchor	13 kg.	max. 13kgs or 26.45lbs min. 11kgs or 24.24lbs	26
Length of warp		min. 30m or 16.4 fathoms	26
Top of I marks above water with yacht in racing trim			5