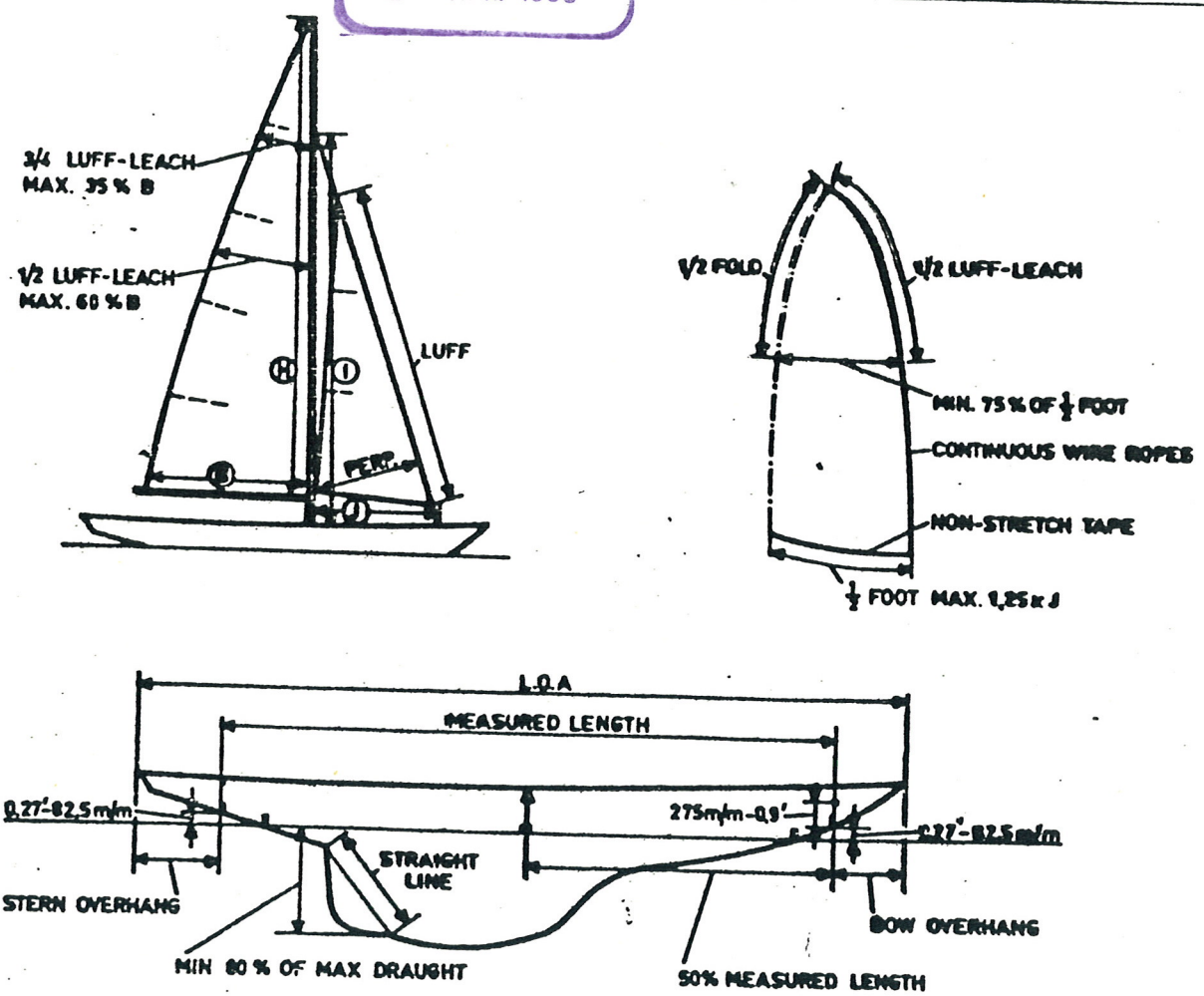


THE INTERNATIONAL 5.5 METRE CLASS CERTIFICATE OF RATING

Yacht's name <i>Bouddah IX</i>	Classification society <i>Bureau Veritas, Paris</i>
Permanent sail number <i>Z 126</i>	Expiration date of classification certificate <i>1</i>
Owner <i>J. Grawl</i>	Measurements or partial remeasurements by N.A. Measurer, signature & date <i>USY - Verm.</i>
Owner's club <i>CVL</i>	<i>O. Weber</i>
Designer <i>Fay</i>	<i>CH 8802 Kilchberg/ZH</i>
Builder <i>P. Egger, H. Hublin</i>	
Date completed <i>17. 4. 1980</i>	
Condition of water when marks were sighted State fresh or salt <i>fresh</i>	
Difference in immersion (class rule 5) <i>7 mm</i>	<i>5.500</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>16. 4. 82</i>
Signature of designer or builder	
Signature of owner or his representative	
(The designer or builder is only responsible for measurements at the date they are taken)	Rated
Certificate authorised by <div style="border: 1px solid purple; padding: 5px; display: inline-block;">Im USY Register eingetragen am 23. APR. 1980</div>	for (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.		9098	
Bow overhang to L ₁	.934		
Stem overhang to L ₁	.688		
Total overhang	add	1622	
Measured length L ₁		subtract 7476	
Girth at bow	.710		
Twice vertical height at bow (=0.550 m or 1.804 ft.)	.550		
Bow girth difference	subtract .160	.165 = min	min. 0.165 m or 0.541 ft. (rule 3)
Girth at stem	1.572		
Twice vertical height at stem	.966		
Stern girth difference	subtract 606		
1/3 stern girth difference	div. by 3	.202 = min	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)		9.541	min. see next page
Mainsail = 0.5 x <u>10.580</u> (H) x <u>3.653</u> (B)		19.322	min. 26.5 m ² or 285.0 sq. ft. (rule 7)
Total sail area S	add	28,863	max. 29.0 m ² or 312.0 sq. ft.
\sqrt{S}		5.372	
DISPLACEMENT			
Weight of yacht (date when weighed <u>18.4.80</u>)		2050	
Displacement D = weight div. by 1025.21 kg/m ³ or 64 lbs/cu. ft.		2.000	min. 1.7 m ³ or 60.27 cu. ft. (rule 7) max. 2.0 m ³ or 70.62 cu. ft.
$\sqrt[3]{D}$		1.260	
RATING			
Rating calc'd according to formula		1.500	
3 x tumble home excess		-	(rule 14)
FINAL RATING	add	1.500	

RULE PARTICULARS

	Actual ^(x)	Rule limits	Rule No.
HULL			
Immersion checked in salt/fresh water	date 18.4.80		5;27
Weight of inside ballast placed at _____	none	xx)	6;33
Beam	1.912	min. 1.90m or 6.23 ft.	7;9
Draft	1.327	max. 1.35m or 4.43ft,	7
Freeboard at bow girth station	.789		
" at stern girth station	.566		
" at midship mark	.681		
" average	1.936	.645 = min. 0.63m or 2.06ft.	
Keel, ballast material	lead	lead or iron	10
" ht. of round at bottom	.005	max. 75mm. or 3 in.	10
" width at max. section 1 metre below L.W.L.	.182	min. 150mm. or 5.9in.	10
" turn angle	.588	min. 1 in 5.5 = .182	12
Round of beams	none	max. 7mm. in 305mm.	13
Tumble home	.024	or 00.25in. in 12in.	14
2% of max. beam	.038		
Excess tumble home	subtract → -	3 x excess added to rating	14
Area of deck openings	2.20 m ²	max. 2.25m ² or 24.25 sq. ft.	24
Cockpit forward of L1 mark	2.380	min. 1.75m or 5.74ft.	25
Breadth of side decks	.362	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	1.520	max. 0.85m or 2.795ft.	17
" " fore triangle above covering board level (1)	8.880	max. 8.88m or 29.1ft.	16
Base of fore triangle (J) (Deck black band to be checked)	2.686	max. 0.50 x 5	16
Min. headsail for measurement purposes = 0.5 x l x J x 80%	9.541		15
Spinnaker, halliard above forestay	.050	max. 10cm or 3.9in.	20
" " out from mast	.010	max. 3cm or 1.18in.	20
" breadth of half the foot	3.358	max. 1.25 x J	20
Storm spinnaker, breadth of half the foot	2.686	max. J	20
Spinnaker boom length	2.686	max. J	21
Mast diameter at 1/2 ht. of fore triangle, round mast	104 x 144	min. 11.5cm or 4.52 in.	22
" " at deck	104 x 144	min. 10.9cm or 4.30in.	22
" " at jib halliards	104 x 144	min. 9.2cm or 3.62in.	22
" " at top	60 x 77	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	.100	max. 15.2cm or 6in.	23
Boom width	.069	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 l marks above water with yacht in racing trim			5