

1979

International 5.5 Metre Class Certificate of Rating

Yacht's name <i>SURCOUO VII</i>	Classification society <i>Bureau Veritas</i>
Sail number <i>Z 137</i>	Expiration date of classification certificate <i>nov 1983</i>
Owner <i>Jean Chalut</i>	Measurements or partial remeasurements by N.A. Measurer, signature & date
Owner's club <i>S.N.C.</i>	<i>USY - Verm.</i>
Designer <i>Brothers Chance</i>	<i>Weber</i>
Date completed <i>4.11.81</i>	<i>CH-8802 Kilchberg/ZH</i>
Condition of water when marks were sighted State fresh or salt <i>fresh</i>	
Difference in immersion (class rule 5) <i>2.50</i> (metres)
Has designer's or builder's declaration been supplied	
I declare that the particulars given on this certificate are correct at this date	Expiration date of rating certificate
Signature of measurer	<i>3.11.83</i>
Signature of designer or builder	
Signature of owner or representative	Re-rated

Certificate authorised by Date for

Im USY-Register
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27. NOV. 1981

(National Authority)

	Actual ^(X)	Rule limits	Rule No.
HULL			
Immersion checked in salt/fresh water	date 4.11.87		5:27
Weight of inside ballast placed at _____	40ME	xx)	6:33
Beam	1.918	min. 1.90 m	7:9
Draft	1.350	max. 1.35 m	7
Freeboard at bow girth station	.682		
" at stern girth station	.603		
" at midship mark	.605		
" average	1.890	.630 min. 0.63 m	
Keel, ballast material	lead	lead or iron	10
" ht. of round at bottom	.005	max. 75mm	10
" width at max. section 1 metre below L.W.L.	.150	min. 150mm	10
Stern angle	1220	min. 1 in 5.5 = 0.182	12
Round of beams	.0065	max. 7mm in 305mm	13
Tumble home	nil		14
2% of max. beam	.039		
Excess tumble home	subtract	-	3 x excess added to rating 14
Area of deck openings	2.23 m ²	max. 2.25 m ²	24
Cockpit forward of L1 mark	1.990	min. 1.75 m	25
Breadth of side decks	.465	min. 35 cm	24
SAILS & RIGGING			
Height of sailplan above covering board level	11.100	max. 11.10 m	16
" " boom (black band) above covering board level	.500	max. 0.85 m	17
" " fore triangle above covering board level (1)	8.880	max. 8.88 m	16
Base of fore triangle (J) (Deck black band to be checked)	2.680	max. 0.50 x S	16
Min. headsail for measurement purposes = 0.5 x l x J x 80%	9.579		15
Spinnaker, halliard above forestay	.095	max. 10 cm	20
" " out from mast	.003	max. 3 cm	20
" breadth of halt the foot	3.350	max. 1.25 x J	20
Storm spinnaker, breadth of halt the foot	2.680	max. J	20
Spinnaker boom length	2.680	max. J	21
Mast diameter at 1/3 ht. of fore triangle, round mast	125 x 103	min. 11.5 cm	22
" " at deck	125 x 103	min. 10.9 cm	22
" " at jib halliards	115 x 100	min. 9.2 cm	22
" " at top	80 x 90	min. 5.8 cm	22
(The athwartships diameter 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	22
Centre of gravity of mast above covering board level	72.8%	min. 38% of mast ht.	22
Boom depth	.105	max. 15.2 cm	23
Boom width	.070	min. 3.8 cm	23
MISCELLANEOUS			
Weight of anchor	12 kg	max. 13kgs min. 11kgs	26
Length of warp	30m	min. 30 m	26
Top of l marks above water with yacht in racing trim	HL		5

	Actual measures		Rule limits
<u>LENGTH L FOR RATING</u>			
Overall length L.O.A.		8.957	
Bow overhang to L ₁	1.932		
Stern overhang to L ₁	0.749		
Total overhang	add	1.681	
Measured length L ₁		subtract	
Girth at bow	1.680	7.276	
Twice vertical height at bow (=0.550 m)	0.550		
Bow girth difference	subtract	1.65	min. 0.165 m (rule 3)
Girth at stern	1.721		
Twice vertical height at stern	1.040		
Stern girth difference	subtract	0.681	
1/3 stern girth difference	div. by 3	0.227	min. 0.234 m (rule 3)
Length L for rating formula		add	7.671
<u>SAIL AREA FOR RATING</u>			
Largest headsail = 0.5 x _____ (luff) x _____ (perp)		9.579	min. see next page
Mainsail = 0.5 x 10.600 (H) x 3.622 (B)		19.197	min. 26.5 m ² (rule 7)
Total sail area S		add	max. 29.0 m ²
\sqrt{S}			5.359
<u>DISPLACEMENT</u>			
Weight of yacht (date when weighed 4.11.89)		1.780	
Displacement D = weight div. by 1025.21 kg/m ³			min. 1.7 m ³ (rule 7)
$\sqrt[3]{D}$			max. 2.0 m ³
			1.737
			1.202
<u>RATING</u>			
Rating calc'd according to formula		5.499	
3 x tumble home excess		-	(rule 14)
FINAL RATING		add	5.499

