

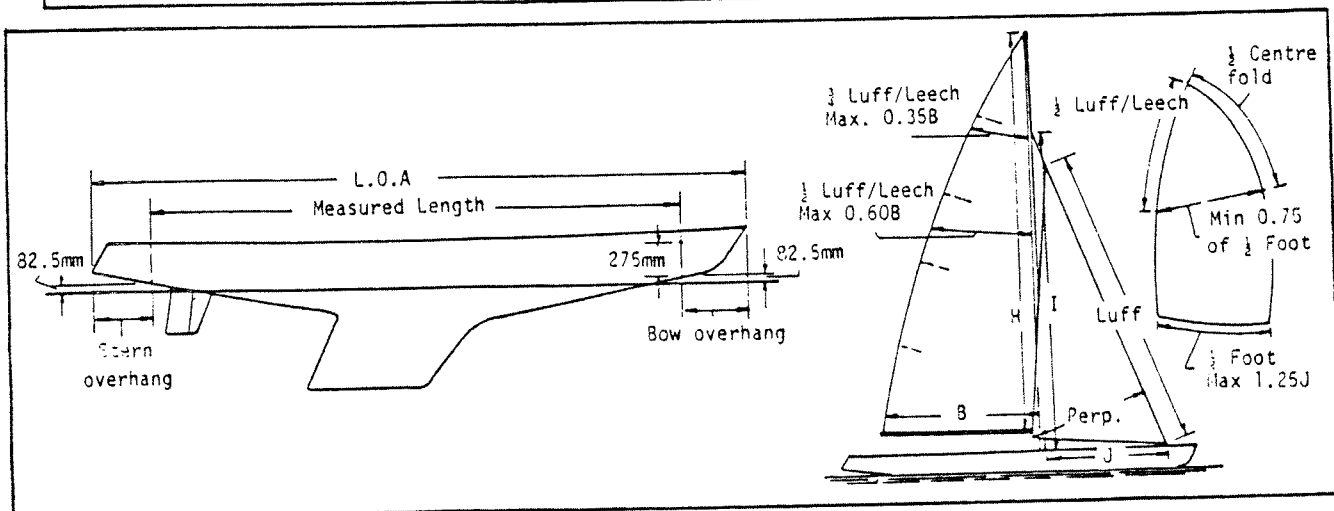
1979

International 5.5 Metre Class Certificate of Rating

<p>Yacht's name <i>Aringa V</i></p> <p>Sail number <i>Z 135</i></p> <p>Owner <i>J. Frei</i></p> <p>Owner's club <i>Y.C.Rh.</i></p> <p>Designer <i>hexan + Hnic</i></p> <p>Date completed <i>january 1981</i></p> <p>Condition of water when marks were sighted State fresh or salt <i>fresh</i></p>	<p>Classification society <i>loyd</i> <i>Y 205691</i></p> <p>Expiration date of classification certificate <i>jan. 1983</i></p> <p>Measurements or partial remeasurements by N.A. Measurer, signature & date</p> <p>USY - Verm. <i>[Signature]</i> O. Weber CH-8802 Kilchberg/ZH <i>28th of oct. 1981</i></p> <div style="border: 2px solid blue; border-radius: 15px; padding: 5px; text-align: center; color: blue;"> <p>Im USY-Register eingetragen am 9. NOV. 1981</p> </div>
<p>Difference in immersion (class rule 5) <i>0.006</i> (metres)</p>	
<p>Has designer's or builder's declaration been supplied <i>yes</i></p>	
<p>I declare that the particulars given on this certificate are correct at this date</p>	
<p>Signature of measurer</p> <p>Signature of designer or builder <i>signed B. hexan</i></p> <p>Signature of owner or representative</p>	<p>Expiration date of rating certificate <i>6th of january 1983</i></p> <p>Re-rated</p>

Certificate authorised by **Techn. Zentrals der USY K. Flachsmann** Date *6.11.81* for
(National Authority)

	Actual measures		Rule limits
<u>LENGTH L FOR RATING</u>			
Overall length L.O.A.		9.606	
Bow overhang to L ₁	1.034		
Stern overhang to L ₁	1.058		
Total overhang	add	2.092	
Measured length L ₁		subtract	
Girth at bow	1.82		
Twice vertical height at bow (=0.550 m)	1.10		
Bow girth difference	subtract	1.165	min. 0.165 m (rule 3) eff. .132
Girth at stern	1.606		
Twice vertical height at stern	1.942		
Stern girth difference	subtract	1.664	
1/3 stern girth difference	div. by 3	.284	min. 0.234 m (rule 3)
Length L for rating formula	add	7.913	eff. .221
<u>SAIL AREA FOR RATING</u>			
Largest headsail = 0.5 x _____ (luff) x _____ (perp)		9.487	min. see next page
Mainsail = 0.5 x 10.100 (H) x 3.629 (B)		19.070	min. 26.5 m ² (rule 7)
Total sail area S		add	max. 29.0 m ²
\sqrt{S}		5.842	
<u>DISPLACEMENT</u>			
Weight of yacht (date when weighed <u>6.1.89</u>)		2050	
Displacement D = weight div. by 1025.21 kg/m ³		2000	min. 1.7 m ³ (rule 7)
$\sqrt[3]{D}$		1.259	max. 2.0 m ³
<u>RATING</u>			
Rating calc'd according to formula		5.500	
3 x tumble home excess	111		(rule 14)
FINAL RATING	add	5.500	



	Actual ¹⁾	Rule limits	Rule No.
HULL			
Immersion checked in salt/fresh water	date 6.1.89		5:27
Weight of inside ballast placed at <u>ml</u>		xx)	6:33
Beam	<u>1.936</u>	min. 1.90 m	7:9
Draft	<u>1.849</u>	max. 1.35 m	7
Freeboard at bow girth station	<u>.696</u>		
" at stern girth station	<u>.577</u>		
" at midship mark	<u>.643</u>		
" average	<u>.630</u>	min. 0.63 m	
Keel, ballast material	<u>lead</u>	lead or iron	10
" ht. of round at bottom	<u>.036</u>	max. 75mm	10
" width at max. section 1 metre below L.W.L.	<u>.174</u>	min. 150mm	10
Stern angle	<u>.204</u>	min. 1 in 5.5 = <u>.182</u>	12
Round of beams	<u>3.30V</u>	max. 7mm in 305mm	13
Tumble home	<u>nil</u>		14
2% of max. beam			
Excess tumble home	subtract	3 x excess added to rating	14
Area of deck openings	<u>2.142</u>	max. 2.25 m ²	24
Cockpit forward of L1 mark	<u>2.440</u>	min. 1.75 m	25
Breadth of side decks	<u>.580</u>	min. 35 cm	24
SAILS & RIGGING			
Height of sailplan above covering board level	<u>11.100</u>	max. 11.10 m	16
" " boom (black band) above covering board level	<u>.600</u>	max. 0.85 m	17
" " fore triangle above covering board level (1)	<u>8.880</u>	max. 8.88 m	16
Base of fore triangle (J) (Deck black band to be checked)	<u>2.671</u>	max. 0.50 x S	16
Min. headsail for measurement purposes = 0.5 x l x J x 80%	<u>9.487</u>		15
Spinnaker, halliard above forestay	<u>.091</u>	max. 10 cm	20
" " out from mast	<u>.000</u>	max. 3 cm	20
" breadth of halt the foot	<u>3.339</u>	max. 1.25 x J	20
Storm spinnaker, breadth of halt the foot	<u>2.671</u>	max. J	20
Spinnaker boom length	<u>2.671</u>	max. J	21
Mast diameter at 1/2 ht. of fore triangle, round mast	<u>106 x 124</u>	min. 11.5 cm	22
" " at deck	<u>104 x 140</u>	min. 10.9 cm	22
" " at jib halliards	<u>94 x 120</u>	min. 9.2 cm	22
" " at top	<u>46 x 89</u>	min. 5.8 cm	22
(The athwartship 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	<u>40.2</u>	min. 40 kgs	22
Centre of gravity of mast above covering board level	<u>38%</u>	min. 38% of mast ht.	22
Boom depth	<u>.120</u>	max. 15.2 cm	23
Boom width	<u>.090</u>	min. 3.8 cm	23
MISCELLANEOUS			
Weight of anchor	<u>12 k.</u>	max. 13kgs min. 11kgs	26
Length of warp	<u>30</u>	min. 30 m	26
Top of 1 marks above water with yacht in racing trim	<u>34</u>		5