

# INTERNATIONAL FIVE POINT FIVE METRE CLASS

## MEASUREMENT FORM AND CERTIFICATE OF RATING



Yacht's name: Helena (2) Sail number: L-33  
Owner: NJK Owner's club: NJK  
Designer: HANS GROOP Date completed: 23.6.1986  
YRU Plaque No: -  
Has designer's or builder's declaration been supplied: YES / NO (Delete whichever is applicable)

Condition of water when marks were sighted: FRESH (fresh or salt)  
Difference in immersion (Class Rule 23): 0.007 (metres)

Date of Classification Certificate (Building Form): 23.6.1986  
Surveyors Name: Lloyds Register of Shipping

Measurements or partial re-measurements by National Authority Measurer, signature and date and Item No:

Signature	Date	Item No
.....	.....	.....
.....	.....	.....
.....	.....	.....
.....	.....	.....

Expiration date of Certificate of Rating: .....

Re-Rated: .....

I certify that the measurements entered on this certificate have been properly taken and that to the best of my knowledge and belief the boat complies with the Rules of the International 5.5 Metre Class.

Signature of Measurer: Jaakko Olkkonen

Signature of designer or builder: Hans Groop

Signature of owner or representative: .....

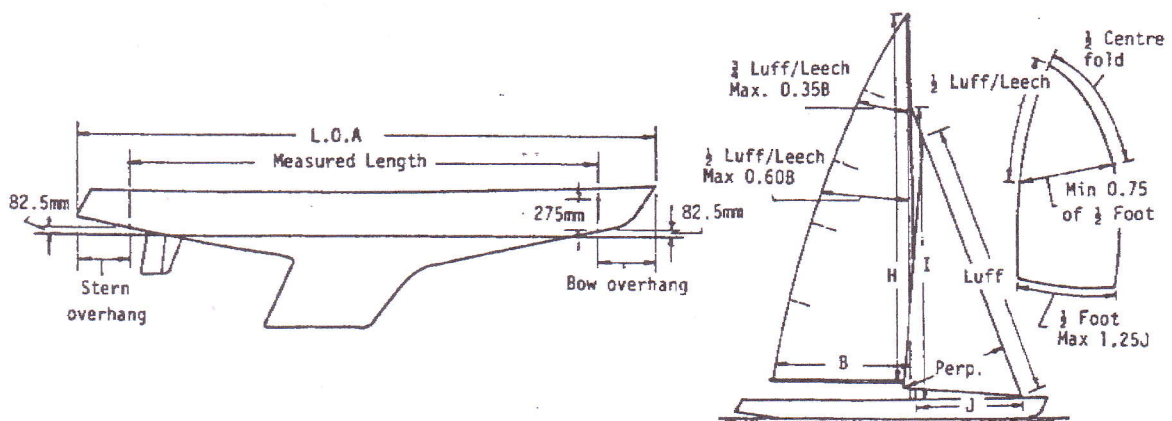
Certificate authorised by: .....

For: 23.6.1986

(enter name of National Authority)

FINNISH YACHTING ASSOCIATION

Item No.	Rule No.	Measurement	Min	Actual	Max
		<b>HULL</b>			
1	23(e)	Immersion Checked in fresh/salt water date <b>8.6.86</b>			
2	13	Weight of inside ballast placed at		<b>120kg</b>	
3	5	Beam	1.90m	<b>1.990</b>	
4	2	Max. Draft		<b>1.340</b>	1.35m
5	4	Freeboard at bow girth station		<b>0.740</b>	
6	4	Freeboard at stern girth station		<b>0.610</b>	
7	4	Freeboard at midship mark		<b>0.630</b>	
8	4	Freeboard average (Item 5+6+7)/3)	0.628m	<b>0.660</b>	
9	14iii	Keel and ballast materials (lead or iron)		<b>LEAD</b>	
10	14iv	Keel height of round at bottom	75mm	<b>75mm</b>	
11	14iv	Maximum section width down 1m from LWL	150mm	<b>155mm</b>	
12	8	Stern angle	1 in 5.5	<b>1.4 IN 5.5</b>	
13	9	Round of beams, max 7mm in 305mm			7mm in 305mm
14	10	Tumblehome			
15	10	2% of max. beam		<b>0.040</b>	
16	10	Excess tumblehome (Item 14-15)	-0.040		
17	11	Area of deck openings		<b>2.150</b>	2.25m <sup>2</sup>
18	12	Cockpit forward of LI mark	1.75m	<b>2.150</b>	
19	11	Breadth of side decks	35cm	<b>45cm</b>	



Item No.	Rule No.	Measurement	Min	Actual	Max
		<b>LENGTH L FOR RATING</b>			
40	3	Overall length LOA		<i>9.050</i>	
41	3	Bow Overhang L <sub>1</sub>		<i>0.967</i>	
42	3	Stern overhang L <sub>1</sub>		<i>0.976</i>	
43	3	Total Overhang (Item 41+42)		<i>1.943</i>	
44	3	Measured tength LI (Item 40-43)		<i>7.107</i>	
45	3	Girth at bow		<i>0.734</i>	
46	3	Twice vertical height at bow (= 0.55m)		<i>0.550</i>	
47	3	Bow girth difference (Item 45-46)	0.165	<i>0.184</i>	
48	3	Girth at stern		<i>1.805</i>	
49	3	Twice vertical height at stern		<i>1.055</i>	
50	3	Stern girth difference (Item 48-49)		<i>0.750</i>	
51	3	1/3 stern girth difference (50 divided by 3)	0.234	<i>0.250</i>	
52	3	Length L for rating formula (Item 44+47+51)		<i>7.541</i>	
		<b>SAIL AREA FOR RATING</b>			
53	17	Largest headsail=0.5x <i>8.560</i> (luff)x <i>2.250</i> (perp) Item 24		<i>9.630</i>	
54	18	Mainsail =0.5x <i>10.380</i> (H) x <i>3.700</i> (B)		<i>19.203</i>	
55	2	Total sail area S (53+54)	26.5m <sup>2</sup>	<i>28.833</i>	29.0m <sup>2</sup>
56		<sup>2</sup> VS		<i>5.370</i>	
		<b>DISPLACEMENT</b>			
57	13	Weight of yacht (date when weighed) <i>8.6.86</i>		<i>1805</i>	
58	13	Displacement D=weight/1025.21 kg/m <sup>3</sup>	1.7m <sup>3</sup>	<i>1.761</i>	2.0m <sup>3</sup>
59	13	<sup>3</sup> VD		<i>1.208</i>	
		<b>RATING</b>			
60	2	Rating calculated according to formula		<i>5.420</i>	
61	10	3xtumblehome excess (add to Item 60 for final rating)		<i>0.000</i>	
62	2	<b>FINAL RATING</b>		<i>5.420</i>	5.500m

→ longer

Item No.	Rule No.	Measurement	Min	Actual	Max
		<b>SAILS AND RIGGING</b>			
20	16	Height of sailplan above covering board level		<i>11.100</i>	11.10m
21	18	Height of boom (black band) above covering board level	0.5m	<i>0.720</i>	0.85m
22	17	Height of fore triangle above covering board level (I)		<i>8.880</i>	8.88m
23	16	Base of fore triangle (J) (Deck black band to be checked)		<i>2.685</i>	0.5x <sup>2</sup> VS
24	16	Min. Headsail for measurement purposes = 0.5 x I x J x 80%		<i>9.536</i>	
25	19	Spinnaker halliard above forestay		<i>10cm</i>	10cm
26	19	Spinnaker halliard out from mast		<i>3cm</i>	3cm
27	19	Spinnaker, breadth of half the foot		<i>3.356</i>	1.25 x J
28	19	Storm spinnaker, breadth of half the foot		<i>2.685</i>	J
29	20	Spinnaker boom length		<i>2.685</i>	J
30	21	Mast for and aft dimensions at spreaders	12.5cm	<i>14.4x10.2</i>	
31	21	Mast athwatships widht at spreaders	7.5cm	<i>12.6x9.3</i>	
32	21	Tip weight of mast	16kgs	<i>19kg</i>	
33	22	Boom depth		<i>12.0cm</i>	15.2cm
34	22	Boom width	3.8cm	<i>6.5cm</i>	
		<b>MISCELLANEOUS</b>			
35	29	Weight of anchor	11kgs	<i>12kg</i>	13kgs
36	29	Length of warp (min. diameter 9mm)	30m	<i>32</i>	
37	23	Top of I marks above water with yacht in racing trim			
38	15.7(a)	Weight of keel - take from Building Form		-	70% yacht weight
39	15.7(c)	Weight of rudder	10kgs	-	

