


INTERNATIONAL 2.4 METRE CLASS

Rating Certificate

National Letters and Sail Number	SWE 379
ISAF Plaque no.	236
Designer	Peter Norlin
Builder	Vene Björndahl
Building Year	1998
Owner	Stellan Berlin
Owners adress	Valhallavägen 147 115 31 Stockholm

Supersedes former certificate, dated		Swedish Sailing Federation
This certificate is dated	2007-07-12	
Validity confirmed by	<i>Kjell Martinsson</i>	
Measurer: Stefan Ryott	1999-05-28	Stamp of Authority
Complementary measurement: Håkan Kellner	2007-06-12	

Overall Length		4.182	
Add (Overhang Forward to L ₁)		0.432	
Add (Overhang Aft to L ₁)		0.655	
Subtract Total Overhang		1.087	1.087
Measured Length			3.095
Girth at Bow		0.312	
Subtract (Twice Vertical Height at Bow)		0.240	
0 at Bow		0.072	
Add 1,5*0 at Bow, (min 0.108)			0.108
Girth at Stern		0.887	
Subtract (Twice Vertical Height at Stern)		0.525	
0 at Stern		0.362	
Add 1/3 0 at Stern, minimum 0.080			0.121
Add any penalty at 0 ₂			
Correct length, L			3.324
Subtract (Skin d to d ₁ Port)		0.000	
Subtract (Chain d to d ₁ Port)		0.000	
d Port		0.000	
Subtract (Skin d to d ₁ Starboard)		0.000	
Subtract (Chain d to d ₁ Starboard)		0.000	
d Starboard		0.000	
Add d			0.000
2d			0.000
Add to find sum of measurements			3.324
Add (Mean Freeboard Bow 0)		0.327	
Add (Mean Freeboard Midship D)		0.291	
Add (Mean Freeboard Stern 0 and 0 ₂)		0.298	
Sum of Freeboards		0.916	
Subtract (1/3 sum) FREEBOARD, F, max	0.292		0.292
Beam penalty			3.032
Tumblehome penalty			0.000
\sqrt{S}			0.000
Total of Measurements			2.654
Divide by 2.37 = RATING =			5.686
Displacement penalty			2.399
Draft penalty			0.000
Final Rating			0.000
			2.399

If in doubt, the Certificate can be checked against the official website: www.ssf.se/tk/24/cert24.asp

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This certificate is dated	2007-07-12
Overall Length	4.182
Add (Overhang Forward to L	0.543
(Overhang Aft to L	0.661
Subtract Total Overhang	<u>1.204</u>
Water Line Length	2.978
Beam at 1/3 Height of Midship Freebord	0.000
Maximum draft	0.000
Tumble Home	0.000
Weight by weighing	<u>257</u> kg
with 35 kg ballast	<u>292</u> kg
Minimum weight required by Rule	<u>289</u> kg

Areas of Sails	I = 3.750
	J = 1.560
	P = 4.650
	E = 1.960
Mainsail =	4.557
Foretriangle Total =	2.925
Foretriangle Total x 0.85 =	<u>2.486</u>
Sail Area for Rating = S =	<u>7.043</u>
\sqrt{S}	2.654

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