


INTERNATIONAL 2.4 METRE CLASS

Rating Certificate

National Letters and Sail Number	SWE 234	
ISAF Plaque no.	sk181	
Designer	Peter Norlin	
Builder	Malmsten	
Building Year	1990	
Owner	Jan Sjögren	
Owners adress	Trutvägen 2 429 35 Kullavik	
Supersedes former certificate, dated	2006-06-12	Swedish Sailing Federation
This certificate is dated	2007-06-14	
Validity confirmed by	<i>Kjell Martinsson</i>	
Measurer: Stefan Ryott	1992-09-19	Stamp of Authority
Complementary measurement: Per Lindell	2007-04-28	

Overall Length		4.218	
Add (Overhang Forward to L ₁)		0.446	
Add (Overhang Aft to L ₁)		0.675	
Subtract Total Overhang		1.121	1.121
Measured Length			3.097
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		0.893	
Subtract (Twice Vertical Height at Stern)		0.547	
0 at Stern		0.346	
Add 1/3 0 at Stern, minimum 0.080			0.115
Add any penalty at 0 ₂			
Correct length, L		3.320	3.320
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			3.320
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
			3.028
Beam penalty			0.000
Tumblehome penalty			0.000
\sqrt{S}			2.654
Total of Measurements			5.682
Divide by 2.37 = RATING =			2.398
Displacement penalty			0.000
Draft penalty			0.000
Final Rating			2.398

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This certificate is dated	2007-06-14
Overall Length	4.218
Add (Overhang Forward to L (Overhang Aft to L	0.564 0.675
Subtract Total Overhang	<u>1.239</u>
Water Line Length	2.979
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

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