


INTERNATIONAL 2.4 METRE CLASS

Rating Certificate

National Letters and Sail Number	SWE 400	
ISAF Plaque no.	300	
Designer	Peter Norlin	
Builder	Vene Björndahl	
Building Year	2001	
Owner	Bertil Grandinsson	
Owners adress	Saltsjögränd 10 133 35 Saltsjöbaden	
Supersedes former certificate, dated	2007-01-15	Swedish Sailing Federation
This certificate is dated	2007-05-23	
Validity confirmed by	<i>Kjell Northin</i>	
Measurer: Esko Hyppä	2001-03-28	Stamp of Authority
Complementary measurement: Per Lindell	2007-05-17	

Overall Length		4.180	
Add (Overhang Forward to L ₁)		0.430	
Add (Overhang Aft to L ₁)		0.655	
Subtract Total Overhang		1.085	1.085
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		0.898	
Subtract (Twice Vertical Height at Stern)		0.529	
0 at Stern		0.369	
Add 1/3 0 at Stern, minimum 0.080			0.123
Add any penalty at 0 ₂			
Correct length, L		3.326	3.326
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			3.326
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
			3.034
Beam penalty			0.000
Tumblehome penalty			0.000
\sqrt{S}			2.654
Total of Measurements			5.688
Divide by 2.37 = RATING =			2.400
Displacement penalty			0.000
Draft penalty			0.000
Final Rating			2.400

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This certificate is dated	2007-05-23
Overall Length	4.180
Add (Overhang Forward to L	0.547
(Overhang Aft to L	0.655
Subtract Total Overhang	<u>1.202</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>254 kg</u>
with 35 kg ballast	<u>289 kg</u>
Minimum weight required by Rule	<u>289 kg</u>

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