


INTERNATIONAL 2.4 METRE CLASS

Rating Certificate

National Letters and Sail Number	SWE 424	
ISAF Plaque no.	452	
Designer	Peter Norlin	
Builder	Vene Björndahl	
Building Year	2004	
Owner	Gustaf Johnson	
Owners adress	Grevgatan 67 114 59 Stockholm	
Supersedes former certificate, dated	2006-09-20	Swedish Sailing Federation
This certificate is dated	2007-10-15	
Validity confirmed by	<i>Kjell Martinsson</i>	
Measurer: Esko Hyyppä	2004-07-05	Stamp of Authority
Complementary measurement: Håkan Kellner	2007-09-25	

Overall Length		4.180	
Add (Overhang Forward to L ₁)		0.427	
Add (Overhang Aft to L ₁)		0.658	
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	2007-10-15
Overall Length	4.180
Add (Overhang Forward to L (Overhang Aft to L	0.544 0.658
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