


INTERNATIONAL 2.4 METRE CLASS

Rating Certificate

National Letters and Sail Number	SWE 405	
ISAF Plaque no.	369	
Designer	Peter Norlin	
Builder	Vene - Björndahl	
Building Year	2002	
Owner	Hans Ekholm	
Owners adress	Appelbergsvägen 32 854 67 Sundsvall	
Supersedes former certificate, dated	2007-01-15	Swedish Sailing Federation
This certificate is dated	2007-07-31	
Validity confirmed by	<i>Kjell Martinsson</i>	
Measurer: Håkan Kellner	2002-05-27	Stamp of Authority
Complementary measurement: Håkan Kellner	2007-05-29	

Overall Length		4.185	
Add (Overhang Forward to L ₁)		0.427	
Add (Overhang Aft to L ₁)		0.663	
Subtract Total Overhang		1.090	1.090
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	2007-07-31
Overall Length	4.185
Add (Overhang Forward to L	0.544
(Overhang Aft to L	0.663
Subtract Total Overhang	<u>1.207</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>255 kg</u>
with 35 kg ballast	<u>290 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