


# INTERNATIONAL 2.4 METRE CLASS

## Rating Certificate

<b>National Letters and Sail Number</b>	SWE 378	
<b>ISAF Plaque no.</b>	237	
<b>Designer</b>	Peter Norlin	
<b>Builder</b>	Vene Björndahl	
<b>Building Year</b>	1998	
<b>Owner</b>	Per Ahrbom	
<b>Owners adress</b>	Strandpromenaden 51 131 50 Saltsjö-Duvnäs	
Supersedes former certificate, dated	2007-07-12	<b>Swedish Sailing Federation</b>
This certificate is dated	2009-04-06	
Validity confirmed by	<i>Kjell Martinsson</i>	
Measurer: Stefan Ryott		Stamp of Authority
Complementary measurement: Per Lindell	2007-05-07	

<b>Overall Length</b>		4.191	
Add (Overhang Forward to L <sub>1</sub> )		0.432	
Add (Overhang Aft to L <sub>1</sub> )		0.664	
Subtract Total Overhang		1.096	1.096
<b>Measured Length</b>			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 <sub>2</sub>			
<b>Correct length, L</b>		3.324	3.324
Subtract (Skin d to d <sub>1</sub> Port		0.000	
Subtract (Chain d to d <sub>1</sub> Port		0.000	
d Port		0.000	
Subtract (Skin d to d <sub>1</sub> Starboard		0.000	
Subtract (Chain d to d <sub>1</sub> Starboard		0.000	
d Starboard		0.000	
Add d			0.000
2d			0.000
<b>Add to find sum of measurements</b>			3.324
Add (Mean Freeboard Bow 0		0.327	
Add (Mean Freeboard Midship D		0.291	
Add (Mean Freeboard Stern 0 and 0 <sub>2</sub>		0.298	
Sum of Freeboards		0.916	
<b>Subtract (1/3 sum) FREEBOARD, F, max</b>	0.292		0.292
			3.032
Beam penalty			0.000
Tumblehome penalty			0.000
√S			2.654
<b>Total of Measurements</b>			5.686
<b>Divide by 2.37 = RATING =</b>			2.399
Displacement penalty			0.000
Draft penalty			0.000
<b>Final Rating</b>			2.399

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<b>Overall Length</b>		4.191
Add (Overhang Forward to L (Overhang Aft to L	0.549 0.664	
Subtract Total Overhang		<u>1.213</u>
Water Line Length		2.978
<b>Beam at 1/3 Height of Midship Freebord</b>		0.000
<b>Maximum draft</b>		0.000
<b>Tumble Home</b>		0.000
<b>Weight by weighing</b>		<u>254 kg</u>
<b>with 35 kg ballast</b>		<u>289 kg</u>
<b>Minimum weight required by Rule</b>		<u>289 kg</u>

<b>Areas of Sails</b>	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>
$\sqrt{S}$		<u>2.654</u>

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