


# INTERNATIONAL 2.4 METRE CLASS

## Rating Certificate

<b>National Letters and Sail Number</b>	SWE 383	
<b>ISAF Plaque no.</b>	270	
<b>Designer</b>	Peter Norlin	
<b>Builder</b>	Vene Björndahl	
<b>Building Year</b>	1999	
<b>Owner</b>	Jan Olof Björn	
<b>Owners address</b>	Villavägen 42 806 49 Gävle	
Supersedes former certificate, dated	2005-05-10	<b>Swedish Sailing Federation</b>
This certificate is dated	2007-10-08	
Validity confirmed by	<i>Kjell Martinsson</i>	
Measurer: Esko Hyyppä	1999-09-06	 Stamp of Authority
Complementary measurement: Håkan Kellner	2007-09-23	

<b>Overall Length</b>		4.181	
Add (Overhang Forward to L <sub>1</sub> )		0.427	
Add (Overhang Aft to L <sub>1</sub> )		0.659	
Subtract Total Overhang		1.086	1.086
<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		0.898	
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 <sub>2</sub>			
<b>Correct length, L</b>		3.326	3.326
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>			3.326
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
			3.034
Beam penalty			0.000
Tumblehome penalty			0.000
√S			2.654
<b>Total of Measurements</b>			5.688
<b>Divide by 2.37 = RATING =</b>			2.400
Displacement penalty			0.000
Draft penalty			0.000
<b>Final Rating</b>			2.400

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<b>Overall Length</b>	4.181
Add (Overhang Forward to L (Overhang Aft to L	0.544 0.659
Subtract Total Overhang	<u>1.203</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)