


INTERNATIONAL 2.4 METRE CLASS

Rating Certificate

National Letters and Sail Number	SWE 433	
ISAF Plaque no.	629	
Designer	P. Norlin	
Builder	Charger Composite	
Building Year	2008	
Owner	Peter Norlin	
Owners adress	Nätgränd 3 116 68 STOCKHOLM	

Supersedes former certificate, dated		Swedish Sailing Federation
This certificate is dated	2008-09-09	
Validity confirmed by	<i>Kjell Martinsson</i>	
Measurer: Håkan Kellner	2008-05-02	Stamp of Authority
Complementary measurement: Håkan Kellner	2008-09-03	

Overall Length		4.179	
Add (Overhang Forward to L ₁)		0.423	
Add (Overhang Aft to L ₁)		0.661	
Subtract Total Overhang		1.084	1.084
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		0.896	
Subtract (Twice Vertical Height at Stern		0.526	
0 at Stern		0.370	
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)		0.299	
Sum of Freeboards		0.917	
Subtract (1/3 sum) FREEBOARD, F, max	0.292		0.292
			3.034
Beam penalty			0.000
Tumblehome penalty			0.000
√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

National Letters and Sail Number	SWE 431
ISAF Plaque no.	629
This certificate is dated	2008-09-09

Overall Length	4.179
Add (Overhang Forward to L	0.540
(Overhang Aft to L	0.661
Subtract Total Overhang	<u>1.201</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}	<u>2.654</u>

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