International 2.4 metre Class Certificate of Rating

Sail Number FIN- 167 ISAF Plaque Number 766

Owner Janne Laine

Overall length				4.180
Overhang Forward to L1		+ 0.426		
	al overhang	+ 0.663	\rightarrow	- 1.089
Measured length				3.091
Girth at Bow		0.310		
Twice Vertical Height at Bow	O at Bow	- 0,240	0.070	
1½ O at Bow			+ 0.105	
Girth at Stern		0.897		
Twice Vertical Height at Stern	O at Stern	- 0.530-	0.367	
Add 1/3 O at Stern			+ 0.122	
Add any penalty at O2 Sum of C	Girth difference		+ >	+ 0.227
Correct length, L				3.318
Skin girth d to d1 Port				
Chain girth d to d1 Port	d Port		+	
Skin girth d to d1 Starboard				
Chain girth d to d1 Starb,	d Starboard		+	
d = d Port + d Starboard	2 x d			+
Add to find sum of $L + 2d$				
Mean freeboard Bow O		+ 0.328		
Mean freeboard Midships D		+ 0.292		
Mean freeboard Stern Sum	of freeboards	+ 0.298 -	→ 0.918	
F=1/3 sum of freeboards	F, max 0.292		0.306	- 0.292
=L+2d-F				3.026
Penalty Displacement Rule D.7.2	. LWL			
Corr LWL Difference	2 x difference	>	>	+
Penalty Beam Rule D.7.3	Beam			
Min beam Deficiency	4 x deficiency	-0,720	>	+
\sqrt{S}				+ 2.654
Total of Measurements $L + 2d - F$	$S + \sqrt{S}$			5.680
Divide by 2.37 = RATING =				2.397
Penalty Draft Rule D.7.1	Draft			
Max draft Excess	3 x excess	-1,000 ->	>	+
Penalty Tumble home D.7.4				
Max Tumble home Excess		-0,015	>	+
FINAL RATING				2.397

Overall Length

Overhang Forward to L

Overhang Aft to L

Total Overhang (Sum overhang forward and aft)

Waterline Length (Overall Length - Total Overhang)

Minimum measured cockpit frame over water level when ballasted and swamped in accordance with rule C.5.2

Boat weight recorded by weighing according to rule C.5.1

Boat weight including 35 kg ballast

Minimum weight by Rule D.7.2 $(0.2xLWL+0.06)^3x 1025$

		4.180
+	0.541	
+	0.669	
	\rightarrow	- 1.210
		2.970
		0.060
		254 Kg
		289 Kg
		287 Kg

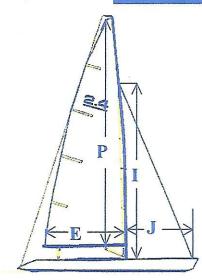
Sail Dimensions

P = 4.650

Outer point distance E = 1.960

Forestay height I = 3.750

Foretriangle base J = 1.560



Builder Charger Composities

Designer Peter Norlin

When Built 2011

Initial Fundamental Measurement made by R.bjurström/Fya lic 048

Complementary Measurement made by

Date 9.5.2011 Date

Certificate issued by

FYA

name

authority

Date of issue 10.7.2011

Stamp

Other Measurements recorded by measurer

Overall Length

Overhang Forward to L

Overhang Aft to L

Total Overhang (Sum overhang forward and aft)

Waterline Length (Overall Length - Total Overhang)

Minimum measured cockpit frame over water level when ballasted and swamped in accordance with rule C.5.2

Boat weight recorded by weighing according to rule C.5.1

Boat weight including 35 kg ballast

Minimum weight by Rule D.7.2 (0.2xLWL+0.06)³ x 1025

	4-180
+0.541	
+0.669	
\rightarrow	- 1.210
	2.970
-	0.060
	257 Kg
	289 Kg
	287 Kg

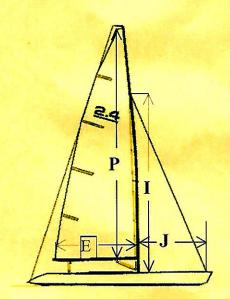
Sail Dimensions

P = 4.650 E = 1.960

Outer point distance

Forestay height	I=3.75
Foretriangle base	J = 1.56

3.6	
Mast measurements checked	OK
Height of mast datum point	
Rule C.8.2 (b) (2)	OK
Boom measurements checked	OK
Rudder thickness, Rule E.4.3	OK



Areas of Sail

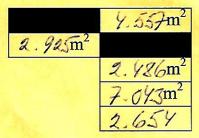
Mainsail $0.5 \times P \times E =$

Foretriangle Total $0.5 \times I \times J =$

Foretriangle Total x 0.85

Sail Area For Rating = S =

 \sqrt{s}



Builder Charger Composites Designer	Peter North When Built 2011
Builder Charger Composites Designer . Measured by The Mile 048	Date of Measurement .09.05 - 2011
Complementary measured by	
Certificate issued by	Date of issue

name

CA ... authority signature