



International 2.4 Metre Measurement Certificate

Owner: **MEGAN PASCOE**
Of: **72 FORTUNESWELL**
PORTLAND
DORSET

Sail Number **GBR 98**

Boat Name: **GUMMIANKA**

DT5 1LZ

Sailing Club:

Plaque Number: **719**

Designer: **NORLIN**

Builder: **CHARGER COMPOSITES**

Date Built: **01-Jan-10**

Measurer(s): **DAVE CHIVERS**

Measurement Completed: **12-Nov-10**

First Certificate: **18-Mar-11**

Date of this Certificate: **01-Aug-11**

Valid Until:

Notes:

DUPLICATE CERTIFICATE !!!

Certificate Authorised by: **ANDY WIBROE**



for the RYA

Sail Endorsements

All sails used when racing shall have been measured by an RYA Approved Metre Measurer who shall have signed and dated each sail at its tack. Sail endorsements are not required on this Certificate.

Owner's Declaration

I undertake to race this 2.4 Metre only so long as I maintain it to conform with the International 2.4 Metre Class Rules. I also undertake that corrector weights (if any) will not be altered or removed except when carried out in conjunction with an official re-weighing undertaken by an RYA Approved Metre Class Measurer. At such times or upon a change to any of the details shown on this certificate I will return it to the RYA.

Owner's Signature: _____

Date: _____

This Certificate is as required by the RYA in accordance with RRS 78

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Royal Yachting Association

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INTERNATIONAL 2.4 METRE CLASS CERTIFICATE OF RATING

SAIL NUMBER	GBR 98
ISAF PLAQUE NUMBER	00719
DESIGNER	NORLIN
DESIGN	
BUILDER	CHARGER COMPOSITES
WHEN BUILT	2010
MEASURED BY	DAVID CHIVERS, RYA
DATE MEASUREMENT COMPLETED	12 NOVEMBER 2010
DATE OF THIS CERTIFICATE	01 AUGUST 2011
ISSUED BY	THE ROYAL YACHTING ASSOCIATION



RATING 2.400

MEASUREMENTS

Overall length
Add **Overhang Forward to L1**
 Overhang Aft to L1
Total Overhang
Measured Length **(Overall length - Total Overhang)**
Girth at Bow
Twice Vertical Height at Bow
O at Bow
Add 1½ O to Bow
Subtract **Girth at Stern**
 Twice vertical Height at Stern
O at stern
Add 1/3 O at Stern
Add any penalty at O2
Correct length, L
 Skin girth d to d1 Port
 - **Chain girth d to d1 Port**
 = **Girth difference Port**
 Skin girth d to d1 Starboard
 - **Chain girth d to d1 Starboard**
 = **Girth difference Starboard**
Add Girth difference Port and Starboard
2 x sum of Girth difference
Add to find sum of L + 2d
Add **Mean freeboard Bow O**
 Mean freeboard Midships D
 Mean freeboard Stern O & O2
 Sum of freeboards
Subtract 1/3 sum Freeboard, F (max 0.292)
= L+2d-F
 \sqrt{S}
Total of Measurements L+2d-F+ S
Divide by 2.37 = RATING =

	4.182	
0.429		
0.660		
.	+1.089	
	3.093	
0.313		
0.240		
0.073		
	0.108	
0.893		
0.500		
0.373		
	0.124	
	0.000	
	0.233	3.326
0.727		
0.727		
0.0	.	
0.730		
0.730		
.	0.0	
	0	0
		3.326
0.326		
0.296		
0.297		
.		
0.919		
0.306		-0.292
		3.034
		2.654
		5.688
		2.400

OTHER MEASUREMENTS RECORDED BY MEASURER

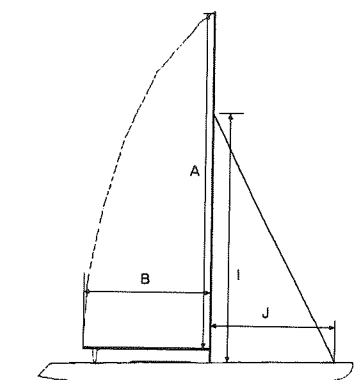
Overall Length
 Overhang Forward to L
 Overhang Aft to L
 Total Overhang (Sum overhang forward & aft)
 Waterline Length (Overall length - Total Overhang)
 Beam at 1/3 Height of Midship Freeboard
 Tumblehome
 Minimum measured freeboard when ballasted and swamped in accordance with Rule 8.2
 Weight recorded by weighing in measurer's presence (including 35kg ballast)
 Minimum weight required by Rule $(0.2 \times LWL + 0.06)^3$

	4.182
0.548	
0.660	
.	-1.208
	2.974
	.
	.
	0.058
	291.0 kg
	287.0 kg

Sail Dimensions

$A = 4.650 \div 1.2 = 3.750$

$B = 1.960 \quad J = 1.560$



Areas of Sails

Mainsail		4.557 m²
Foretriangle Total =	2.925 m²	
Foretriangle Total x 0.85 =		2.486 m²
Sail Area for Rating = S =		7.043 m²
√S		2.654

[2.4 GBR 96] NOTE: This Certificate is issued by the RYA. No details shall be altered without the prior permission of the RYA.