

International 2.4 metre Measurement Form

Sail Number **GBR 120**

ISAF Plaque Number **810**

Owner **Steve Bullmore**

Name of yacht **Moomin Papa**

Overall length			4.181
Overhang Forward to L1			+ 0.433
Overhang Aft to L1	Total overhang		+ 0.663 → - 1.096
Measured length			3.085
Girth at Bow			0.314
Twice Vertical Height at Bow	O at Bow		- 0.240 → 0.074
1½ O at Bow			+ 0.111
Girth at Stern			0.888
Twice Vertical Height at Stern	O at Stern		- 0.528 → 0.360
Add 1/3 O at Stern			+ 0.120
Add any penalty at O2	Sum of Girth difference		+ 0.000 → + 0.231
Correct length, L			3.316
Skin girth d to d1 Port			0.735
Chain girth d to d1 Port	d Port		- 0.735 → + 0.000
Skin girth d to d1 Starboard			0.735
Chain girth d to d1 Starb,	d Starboard		- 0.735 → + 0.000
d = d Port + d Starboard	2 x d		0.000 + 3.316
Add to find sum of L + 2d			3.316
Mean freeboard Bow O			+ 0.325
Mean freeboard Midships D			+ 0.296
Mean freeboard Stern	Sum of freeboards		+ 3.000 → 0.921
F=1/3 sum of freeboards	F, max 0.292		0.307 → - 2.92
= L + 2d - F			3.024
Penalty Displacement Rule D.7.2.	LWL		0.000
Corr LWL	Difference	2 x difference	- → 0.000 + 0.000
Penalty Beam Rule D.7.3	Beam		0.776
Min beam	Deficiency	4 x deficiency	- 0.720 → + 3.024
√S			+ 2.654
Total of Measurements L + 2d - F + √S			5.678
Divide by 2.37 = RATING =			2.396
Penalty Draft Rule D.7.1	Draft		0.978
Max draft	Excess	3 x excess	- 1,000 → + 0.000
Penalty Tumble home D.7.4	Tumble home		0.000
Max Tumble home	Excess	3 x excess	- 0,015 → + 0.000
FINAL RATING			2.396

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

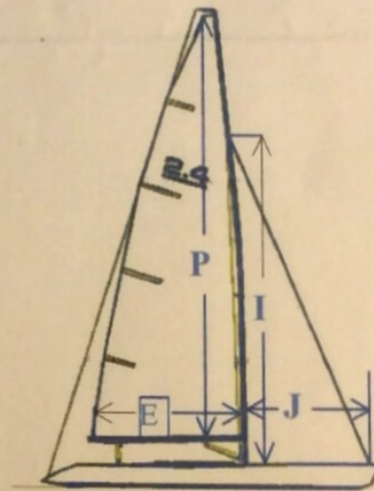
Boat weight including 35 kg ballast

Minimum weight by Rule D.7.2 $(0.2 \times LWL + 0.06)^3 \times 1.025$

	4.181
+0.544	
+0.663	
→	-1.207
	2.974
	0.050
	254 Kg
	289 Kg
	288 Kg

Sail Dimensions

P = 4.650
 Outer point distance E = 1.960
 Forestay height I = 3.750
 Foretriangle base J = 1.560



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

Areas of Sail

Mainsail $0.5 \times P \times E =$

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

Foretriangle Total $\times 0.85$

Sail Area For Rating = $S =$

\sqrt{S}

	4.557 m ²
2.925 m ²	
	2.486 m ²
	7.043 m ²
	2.654

K.D. Lunn
 RYA. 29/04/2013

Builder Charger Composites Designer Peter Norlin When Built 2013

Measured by Keith Gordon Date of Measurement 29th April 2013

Complementary measured by..... Date of compl measurement.....

Certificate issued by Date of issue.....

name

CA

authority

signature