



**RATING** 

# INTERNATIONAL 2.4 METRE CLASS CERTIFICATE OR RATING

RYA House, Ensign Way, Hamble, Hampshire, SO31 4YA United Kingdom

Tel: 02380 604100 Fax: 02380 60 4299 http://www.rya.org.uk

SAIL NUMBER	GBR 157
	0.47
ISAF PLAQUE NUMBER	917
DESIGNER	NORLIN
DESIGN	MK III
BUILDER	CHARGER (TECHNOLOGY
YEAR BUILT	2016
MEASURED BY	KEITH GORDON RYA
DATE MEASUREMENT COMPLETED	1ST NOVEMBER 2016
DATE OF THIS CERTIFICATE	31st MAY 2017
ISSUED BY	THE ROYAL YACHTING ASSOCIATION
	Tom Walk
THOHNICA	AL.

2.398

# **MEASUREMENTS**

Overall length				4.18	
Add	Overhand Forw	vard to L1	0.43	4.10	
	Overhang Aft to	L1	0.66	Same of the Same	
Total Overhang				1.090	
Measured Length	(Overall length	- Total Overhang)	1 100 CONTROL OF THE REAL PROPERTY OF THE REAL PROP	3.090	
Girth at Bow	,	0,	0.311		
Twice Vertical Height at Bow		0.240			
O at Bow			0.072		
Add 1 1/2 O to Boy	v			0.108	
Subtract	Girth at Stern		0.898		
	Twice vertical F	leight at Stern	0.529		
O at Stern		•	0.369	material and a section	
Add 1/3 O at Stern	l.			0.123	
Add any penalty at O2		1	0.000		
Correct length, L				0.231	3.321
	Skin girth d to d	11 Port	0.730	The state of the s	SETTING THE PROPERTY AND
	- Chain girth d to		0.730		
	= Girth difference	Port	0.000	0.000	
	Skin girth d to d	11 Starboard	0.730		
	- Chain girth d to	d1 Starboard	0.730		
	= Girth difference	Starboard	0.000	0.000	
Add Girth difference	e Port and Starbo	ard	0.000	And the state of t	Part 10.00
2 x sum of Girth di	fference				0
Add to find sum of	L + 2d				3.321
Add	Mean freeboard	Bow O	0.327	0.327	
	Mean freeboard	•	0.295	0.295	
	Mean freeboard	d Stern O	0.298	0.298	
	Sum of freeboa	rds	0.92		
Subtract 1/3 sum F	reeboard, F (max	0.292)	0.307		0.292
=L+2d-F				1	3.029
Displacement Pena	alty		0.000		
Corr LWL	Difference	2 x difference	0.000	0.000	0.000
Beam Penalty		Beam	0.769		approximate a part of
Min beam	Deficiency	4 x deficiency	0.720	0.000	0.000
√S			1 1000 1000 1000 1000 1000 1000		2.654
Total of Measurem	ents L+2d-F+S				5.683
Divide by $2.37 = RA$	ATING =		1 - N 1 - N.	Î	2.398
Draft Penalty		Draft	0.000		AND AND A COLUMN TO THE REAL PROPERTY OF THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUM
Max draft	Excess	3 x excess	0.000	0.000	0.000
Tumble home Pena	alty	Tumble home	0.000	THE RESERVE THE PROPERTY OF THE PERSON OF TH	State 1
Max Tumble home	Excess	3 x Excess	0.000	0.000	0.000
			A Reserve of Allender Special Conference of	or angel as the second	
FINAL RATING					2.398

## 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

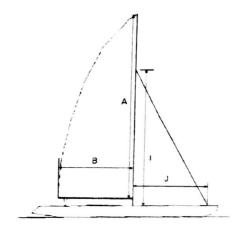
Tumblehome
Minimum measured freeboard when ballasted and swamped

Weight recorded by weighing in measurer's presence (including 35Kg ballast)

Minimum weight required (0.2 x LWL +0.06)<sup>3</sup>

	4.18
 0.545	
0.66	
	1.205
	2.975
	0.005
	289
	288

### Sail Dimensions



#### Areas of Sails

Mainsail (m²)		4.557
Foretriangle Total (m²) =	2.925	C. M. VI.
Foretriangle Total x 0.85 (m <sup>2</sup> =		2.486
Sail Area for Rating (m²) = S =		7.043
VS		2.654