



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

**PATRICIO D. GUTIERREZ
C. GRIERSON Y
COSTANERASUR
Y.C.A**



Certificate

Number **393909**
Issued On **06/07/2016**
ORC Ref **ARG00002682**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **425kg**
Default* **840kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	581,8	1,0313
Non Spin OSN	566,9	1,0583
N/S Perf. Line	2,9	0,658

Sails Limitations

Headsails **7** Spinnakers **4**

Spinnaker configuration

Symmetric: **Yes** **121,92**
Asymmetric: **Yes** **105,12**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **11,409**

Stability

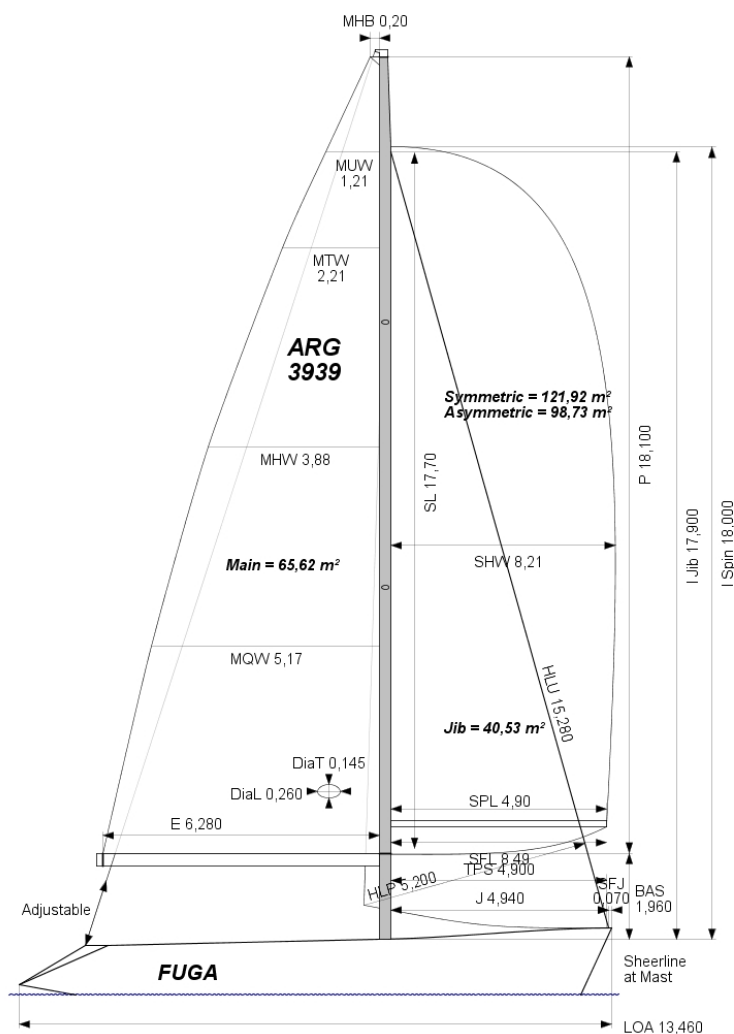
LPS (Estimated): **122,3°**
Stability Index: **124,6**
OSR Category: **N/A**

Owner

**MARIANO DELGUI
LADISLAO MARTINEZ 844
MARTINEZ**

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT		GPH		HULL				
Name	FUGA	554,1	Data File	2arg3939.dxt	LOA	13,460m		
Sail Nr	ARG-3939		Offset File	ARG3939mk.OFF	MB	3,942m		
			Displacement	7.692kg	Draft	2,559m		
CLASS			IMS Division	Performance	Dynamic All.	0,028%		
Class	FRERS 45		Fwd Accom.	Yes	Construction	Light		
Designer	GERMAN FRERS		Fiber Rigging	No	Aramid Core	No		
Builder	AST. DEL ESTUARIO		Crew Arm Ex		Carbon Rudder	Yes		
Series	05/1996		Light Stanchions					
Age Date	05/1996		IMSL	11,892m	VCGD	-0,123m Sink	25,84kg/mm	
Age Allowance	0,487%		RL	10,924m	VCGM	-0,101m	WS	33,68m
			LSM0	11,499m	Displacement/Length ratio	5,0589		
COMMENTS			Water Ballast	0	Trim Tab	No		
PROPELLER			CENTERBOARD					
Installation	Strut	PRD	N/A					
Type	Folding 2 blades	PBW						
		PIPA						

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	539,2			604,2		
Time On Time	1,1128			1,1172		
Performance Line	0,746	33,0		0,951	206,5	
Triple Number	Low 1,0586	Medium 1,3771	High 1,5578	Low 0,8108	Medium 1,1091	High 1,2929



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ORC Club Certificate Appendix

BOAT

Name **FUGA** Certificate Number **393909**
Sail Nr **ARG-3939** Issued On **06/07/2016**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	938,8	763,8	675,1	638,9	619,8	606,7	593,8
52°	610,7	504,4	460,7	447,0	440,1	436,0	427,6
60°	572,7	479,7	446,3	433,7	426,7	422,4	412,8
75°	541,7	463,1	434,4	417,3	405,5	398,7	392,0
90°	544,9	462,1	435,2	415,0	396,2	381,0	366,8
110°	560,6	465,2	429,3	405,2	390,4	377,6	356,5
120°	583,4	478,0	436,4	409,7	384,6	364,9	340,4
135°	656,1	527,2	460,7	430,9	406,2	380,8	329,6
150°	785,8	623,7	524,9	465,5	433,8	410,4	363,7
Run VMG	907,4	720,2	606,1	532,3	484,3	447,2	400,6

Selected Courses

Windward / Leeward	923,1	742,0	640,6	585,6	552,0	527,0	497,2
Circular Random	766,7	617,3	537,3	490,8	461,8	442,0	415,5
Ocean for PCS	946,1	727,7	604,8	529,7	480,7	446,3	398,2
Non Spinnaker	817,4	653,1	563,6	510,6	477,1	454,7	425,9

Velocity Prediction in Knots for True Wind Speeds

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	44,1°	41,9°	40,4°	38,6°	38,2°	37,4°	37,2°
Beat VMG	3,83	4,71	5,33	5,63	5,81	5,93	6,06
52°	5,90	7,14	7,81	8,05	8,18	8,26	8,42
60°	6,29	7,51	8,07	8,30	8,44	8,52	8,72
75°	6,65	7,77	8,29	8,63	8,88	9,03	9,18
90°	6,61	7,79	8,27	8,67	9,09	9,45	9,81
110°	6,42	7,74	8,39	8,88	9,22	9,53	10,10
120°	6,17	7,53	8,25	8,79	9,36	9,86	10,57
135°	5,49	6,83	7,81	8,36	8,86	9,45	10,92
150°	4,58	5,77	6,86	7,73	8,30	8,77	9,90
Run VMG	3,97	5,00	5,94	6,76	7,43	8,05	8,99
Gybe Angles	140,9°	146,0°	149,1°	154,5°	164,8°	180,0°	180,0°