



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

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



Certificate

Number **421601**
Issued On **10/03/2016**
ORC Ref **ARG00002113**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **620kg**
Default* **620kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **663,8 0,9039**
Non Spin OSN **646,3 0,9284**
N/S Perf. Line **18,1 0,600**

Sails Limitations

Headsails **6** Spinnakers **3**

Spinnaker configuration

Symmetric: **Yes 85,68**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **8,724**

Stability

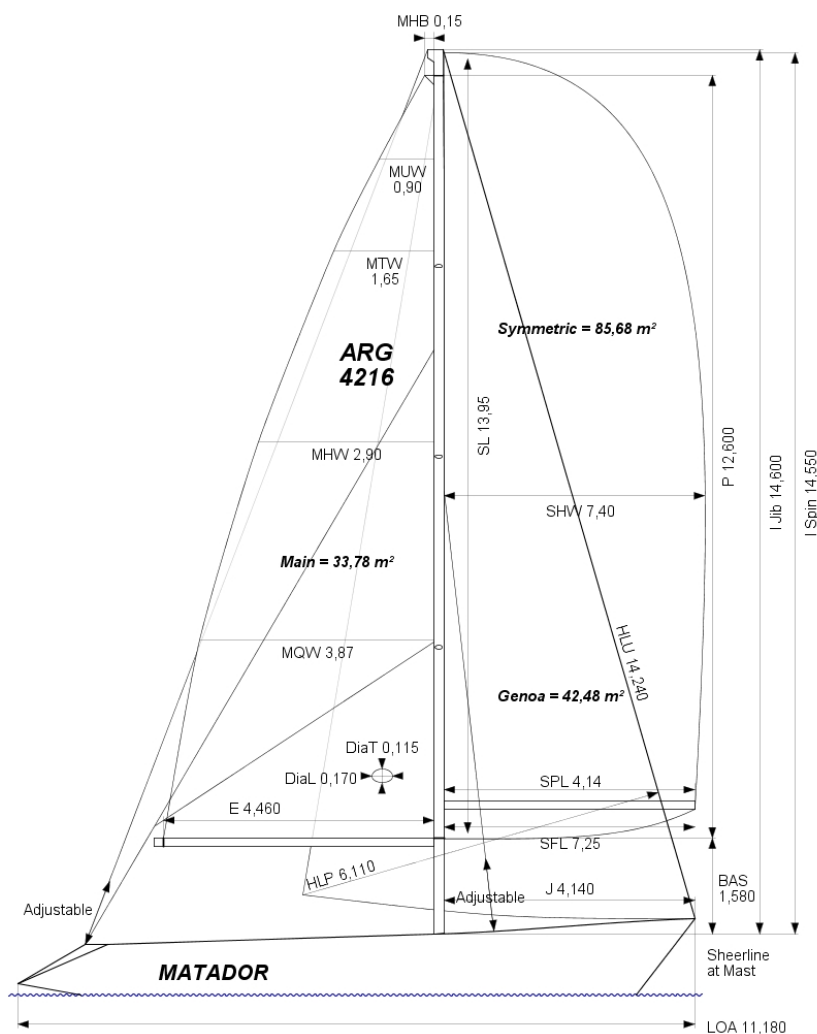
LPS (Estimated): **110,1°**
Stability Index: **109,5**
OSR Category: **N/A**

Owner

**CARLOS PINTO
LIBERTAD 1145
6 A, CABA**

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

Signature



BOAT		GPH		HULL			
Name MATADOR		640,3		Data File	ARG4216.dxt	LOA	11,180m
Sail Nr ARG-4216				Offset File	ARG4216NR.OFF	MB	3,672m
				Displacement	5.600kg	Draft	1,764m
CLASS				IMS Division	Cruiser/Racer	Dynamic All.	0,043%
Class		FRAN 37		Fwd Accom.	Yes	Construction	Cored
Designer		G. SCHROEDER		Fiber Rigging	No	Aramid Core	No
Builder		AST. FRAN		Crew Arm Ex		Carbon Rudder	No
Series		01/1990		Light Stanchions			
Age Date		01/1990		IMSL	9,453m	VCGD	0,092m
Age Allowance		0,487%		RL	7,993m	VCGM	0,032m
				WS			24,61m²
COMMENTS				LSM0	9,290m	Displacement/Length ratio	6,9846
				Water Ballast	0	Trim Tab	No
PROPELLER				CENTERBOARD			
Installation		Strut	PRD	N/A			
Type		Folding 2 blades	PBW				
			PIPA				
			0,430				
			0,100				
			0,0033				

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	623,5			696,0		
Time On Time	0,9622			0,9698		
Performance Line	0,655	38,8		0,812	196,5	
Triple Number	Low 0,9183	Medium 1,1893	High 1,3446	Low 0,7071	Medium 0,9606	High 1,1222



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ORC Club Certificate Appendix

BOAT

Name **MATADOR**
Sail Nr **ARG-4216**

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TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1084,4	906,4	805,3	746,9	717,1	701,6	692,5
52°	699,7	590,2	532,8	509,0	498,5	492,8	488,1
60°	656,1	556,0	514,5	495,1	483,6	477,2	471,3
75°	619,5	533,0	501,1	482,5	467,1	454,1	441,6
90°	620,4	533,7	501,3	482,5	466,0	449,8	424,2
110°	663,9	548,0	502,3	477,3	453,9	434,6	416,4
120°	683,2	561,8	508,5	482,2	459,2	436,4	400,4
135°	752,1	612,6	533,4	498,5	475,6	453,3	411,8
150°	882,2	700,7	595,2	529,6	498,3	476,8	435,7
Run VMG	1018,7	809,1	686,0	602,9	544,7	507,7	464,9

Selected Courses

Windward / Leeward	1051,6	857,8	745,7	674,9	630,9	604,6	578,7
Circular Random	882,5	712,8	621,4	567,8	534,4	512,4	485,0
Ocean for PCS	1084,6	838,2	698,8	613,0	556,9	517,5	462,7
Non Spinnaker	923,8	742,4	643,7	585,3	548,7	524,5	494,2

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	44,6°	43,5°	43,8°	41,9°	40,6°	40,0°	39,6°
Beat VMG	3,32	3,97	4,47	4,82	5,02	5,13	5,20
52°	5,14	6,10	6,76	7,07	7,22	7,31	7,37
60°	5,49	6,47	7,00	7,27	7,44	7,54	7,64
75°	5,81	6,75	7,18	7,46	7,71	7,93	8,15
90°	5,80	6,75	7,18	7,46	7,73	8,00	8,49
110°	5,42	6,57	7,17	7,54	7,93	8,28	8,65
120°	5,27	6,41	7,08	7,47	7,84	8,25	8,99
135°	4,79	5,88	6,75	7,22	7,57	7,94	8,74
150°	4,08	5,14	6,05	6,80	7,22	7,55	8,26
Run VMG	3,53	4,45	5,25	5,97	6,61	7,09	7,74
Gybe Angles	146,1°	150,5°	152,1°	157,1°	180,0°	180,0°	180,0°