



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

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



Certificate

Number **335006**
Issued On **10/03/2016**
ORC Ref **ARG00002112**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **698kg**
Default* **698kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **638,5 0,9397**
Non Spin OSN **621,2 0,9659**
N/S Perf. Line **16,8 0,622**

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 100,18**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **9,578**

Stability

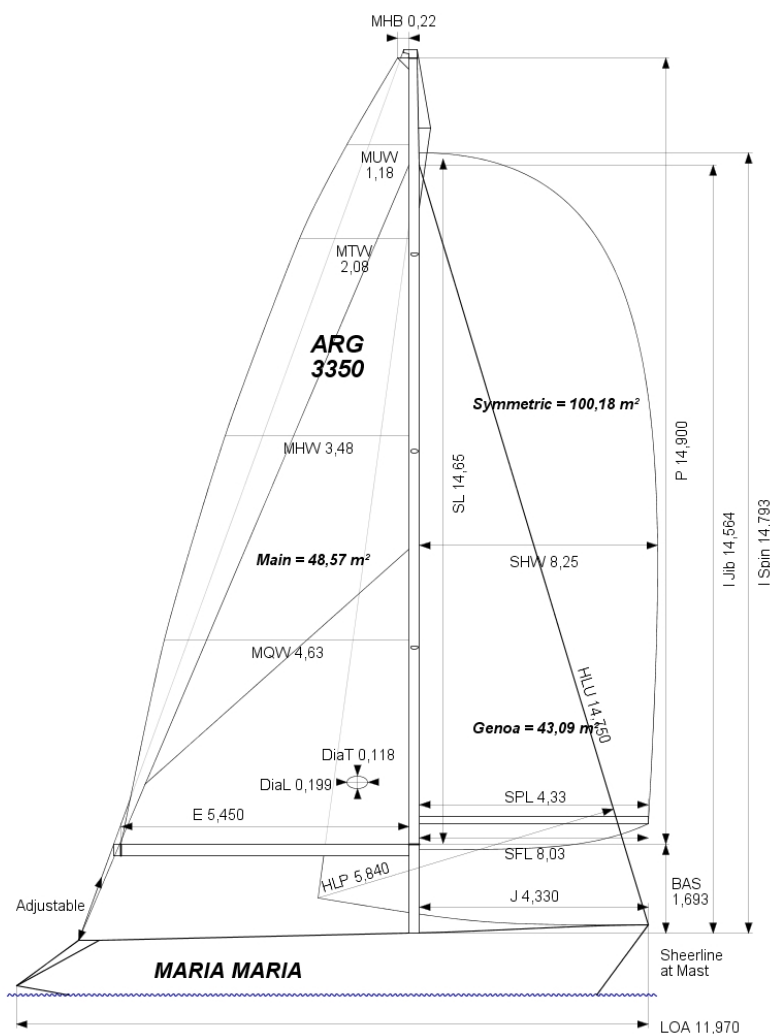
LPS (Estimated): **118,1°**
Stability Index: **120,1**
OSR Category: **N/A**

Owner

MARCELO SPOTORNO

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

Signature



BOAT		GPH		HULL			
Name	MARIA MARIA	615,2		Data File	ARG3350.dxt	LOA	11,970m
Sail Nr	ARG-3350		Offset File	ARG3350m.OFF	MB	3,876m	
				Displacement	7.380kg	Draft	2,186m
CLASS				IMS Division	Cruiser/Racer	Dynamic All.	0,026%
Class	VOLKER 39.5			Fwd Accom.	Yes	Construction	Cored
Designer	NESTOR VOLKER			Fiber Rigging	No	Aramid Core	No
Builder	AST. DURILUZ			Crew Arm Ex		Carbon Rudder	No
Series	07/1989					Light Stanchions	
Age Date	07/1989			IMSL	10,279m	VCGD	-0,065m
Age Allowance	0,487%			RL	8,876m	VCGM	-0,038m
						WS	29,27m²
COMMENTS				LSM0	10,103m	Displacement/Length ratio	7,1566
CNSI				Water Ballast	0	Trim Tab	No
PROPELLER				CENTERBOARD			
Installation	Shaft exposed	PRD	0,450				
Type	Folding 2 blades	PBW	0,118				
		PIPA	0,0053	N/A			

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	598,9			667,4		
Time On Time	1,0019			1,0113		
Performance Line	PLT	PLD		PLT	PLD	
	0,679	38,0		0,830	185,5	
Triple Number	Low	Medium	High	Low	Medium	High
	0,9540	1,2389	1,3998	0,7334	1,0016	1,1750



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ORC Club Certificate Appendix

BOAT

Name **MARIA MARIA**
Sail Nr **ARG-3350**

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TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1029,7	859,7	761,8	708,8	681,7	666,7	653,1
52°	671,0	565,3	510,3	489,0	479,7	474,3	469,4
60°	631,7	534,4	493,9	476,2	466,2	460,4	454,6
75°	598,6	513,1	481,9	464,3	450,5	439,2	428,4
90°	601,3	514,5	482,3	464,3	448,6	433,6	410,9
110°	634,5	523,6	481,1	457,5	436,1	421,5	404,2
120°	655,5	538,5	487,7	463,1	441,4	419,7	390,2
135°	727,2	592,4	513,6	479,6	457,8	436,8	397,0
150°	865,9	686,1	579,5	511,7	480,1	459,4	420,1
Run VMG	999,8	792,3	668,8	584,1	527,5	489,7	448,3

Selected Courses

Windward / Leeward	1014,8	826,0	715,3	646,4	604,6	578,2	550,7
Circular Random	849,1	685,2	597,0	545,3	513,2	492,0	465,5
Ocean for PCS	1045,4	806,5	671,4	588,6	534,8	497,4	446,3
Non Spinnaker	890,4	714,6	618,9	562,4	526,9	503,4	473,6

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	43,6°	42,4°	42,6°	40,7°	39,5°	38,7°	37,9°
Beat VMG	3,50	4,19	4,73	5,08	5,28	5,40	5,51
52°	5,36	6,37	7,06	7,36	7,50	7,59	7,67
60°	5,70	6,74	7,29	7,56	7,72	7,82	7,92
75°	6,01	7,02	7,47	7,75	7,99	8,20	8,40
90°	5,99	7,00	7,46	7,75	8,02	8,30	8,76
110°	5,67	6,88	7,48	7,87	8,26	8,54	8,91
120°	5,49	6,68	7,38	7,77	8,16	8,58	9,23
135°	4,95	6,08	7,01	7,51	7,86	8,24	9,07
150°	4,16	5,25	6,21	7,04	7,50	7,84	8,57
Run VMG	3,60	4,54	5,38	6,16	6,82	7,35	8,03
Gybe Angles	145,0°	150,1°	151,0°	156,3°	174,1°	180,0°	180,0°