



World Leader in Rating Technology

**2016
ORC Club
Certificate**

Rating Office
PATRICIO D. GUTIERREZ
C. GRIERSON Y
COSTANERASUR
Y.C.A



Certificate

Number **558901**
Issued On **10/03/2016**
ORC Ref **ARG00002100**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **574kg**
Default* **574kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **689,8 0,8698**
Non Spin OSN **668,8 0,8971**
N/S Perf. Line **11,0 0,569**

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 84,67**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **8,255**

Stability

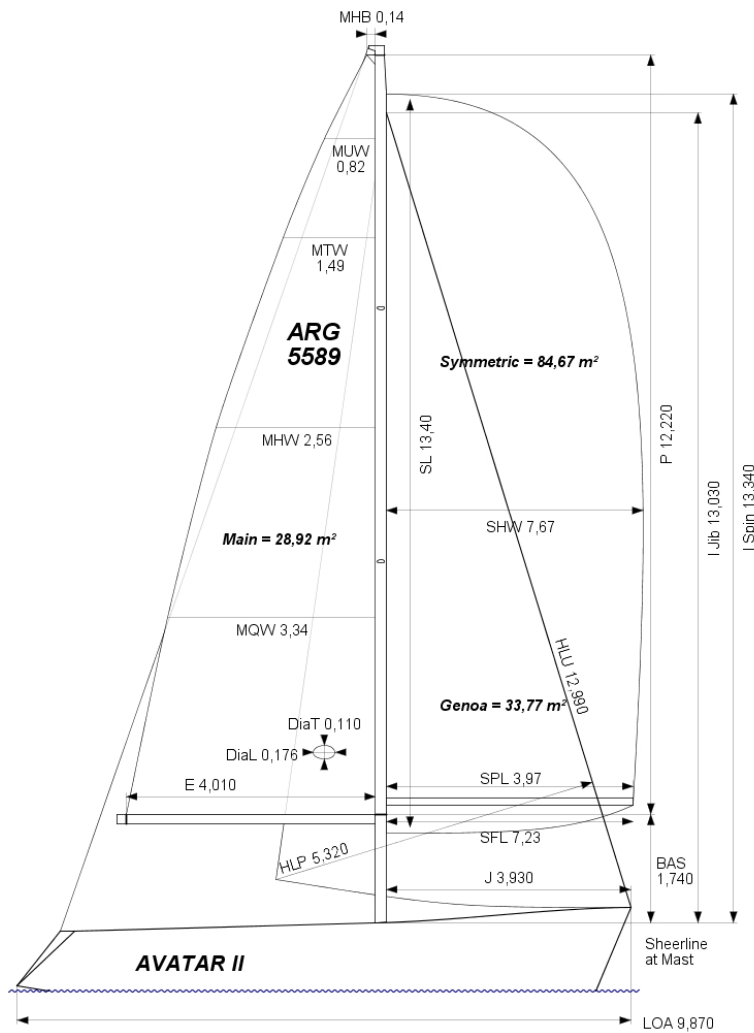
LPS (Estimated): **113,3°**
Stability Index: **110,8**
OSR Category: **N/A**

Owner

MARIO MAZZUCHELLI
OBISPO SAN ALBERTO 3247
BUENOS AIRES

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

Signature



BOAT Name AVATAR II Sail Nr ARG-5589		GPH 658,6	HULL Data File ARG5589.dxt LOA 9,870m Offset File BRAM34SD.OFF MB 3,484m Displacement 4.351kg Draft 1,637m			
CLASS Class BRAMADOR 34 Designer G. SCHROEDER Builder BRAMADOR Series 06/2005 Age Date 06/2005 Age Allowance 0,357%			IMS Division Cruiser/Racer Dynamic All. 0,202% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex No Carbon Rudder No Light Stanchions			
COMMENTS			IMSL 9,038m VCGD -0,023m Sink 17,12kg/mm RL 7,471m VCGM 0,086m WS 22,35m² LSM0 8,807m Displacement/Length ratio 6,3695			
PROPELLER Installation Shaft exposed PRD 0,420 Type Folding 2 blades PBW 0,110 PIPA 0,0041			CENTERBOARD N/A			
SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	639,6			715,2		
Time On Time	0,9381			0,9437		
Performance Line	PLT 0,629	PLD 33,5		PLT 0,780	PLD 191,3	
Triple Number	Low 0,8868	Medium 1,1601	High 1,3105	Low 0,6813	Medium 0,9370	High 1,0896



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ORC Club Certificate Appendix

BOAT	
Name	AVATAR II
Sail Nr	ARG-5589
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1157,2	954,9	841,1	772,5	744,7	732,0	728,0
52°	743,3	621,4	554,6	525,7	515,3	510,4	507,7
60°	693,7	583,9	533,0	510,6	499,5	494,2	490,7
75°	653,1	556,5	518,0	497,0	480,5	468,4	459,5
90°	655,0	558,2	514,4	497,6	479,3	461,4	435,1
110°	666,8	551,7	508,6	481,4	457,0	443,4	422,3
120°	685,0	563,8	514,3	486,9	459,5	433,0	403,1
135°	753,4	613,2	536,7	503,9	478,6	452,4	402,5
150°	894,5	708,2	597,7	533,6	503,9	480,4	432,8
Run VMG	1032,9	817,9	689,6	605,5	548,9	513,9	467,6

Selected Courses							
Windward / Leeward	1095,0	886,4	765,4	689,0	646,8	623,0	597,8
Circular Random	912,4	734,6	638,7	582,6	548,0	525,5	498,0
Ocean for PCS	1120,8	863,3	717,6	628,2	570,1	529,7	474,0
Non Spinnaker	968,3	774,1	668,1	605,5	566,8	541,6	510,7

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	44,8°	43,4°	43,3°	41,8°	40,5°	40,4°	40,5°
Beat VMG	3,11	3,77	4,28	4,66	4,83	4,92	4,94
52°	4,84	5,79	6,49	6,85	6,99	7,05	7,09
60°	5,19	6,17	6,75	7,05	7,21	7,28	7,34
75°	5,51	6,47	6,95	7,24	7,49	7,69	7,84
90°	5,50	6,45	7,00	7,24	7,51	7,80	8,27
110°	5,40	6,52	7,08	7,48	7,88	8,12	8,53
120°	5,26	6,39	7,00	7,39	7,83	8,31	8,93
135°	4,78	5,87	6,71	7,14	7,52	7,96	8,94
150°	4,02	5,08	6,02	6,75	7,14	7,49	8,32
Run VMG	3,49	4,40	5,22	5,95	6,56	7,01	7,70
Gybe Angles	146,0°	150,1°	150,7°	158,1°	177,6°	180,0°	180,0°