



World Leader in Rating Technology

2017 ORC Club Certificate

Rating Office

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



Certificate

Number **562801**
Issued On **12/01/2017**
ORC Ref **ARG00004033**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared **325kg**
Default* **468kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **720,3 0,8330**
Non Spin OSN **698,1 0,8595**

Sails Limitations

Headsails **5** Spinnakers **3**
Dacron Sails

Spinnaker configuration
Symmetric: **Yes 45,06**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 7,362

Stability (Estimated)

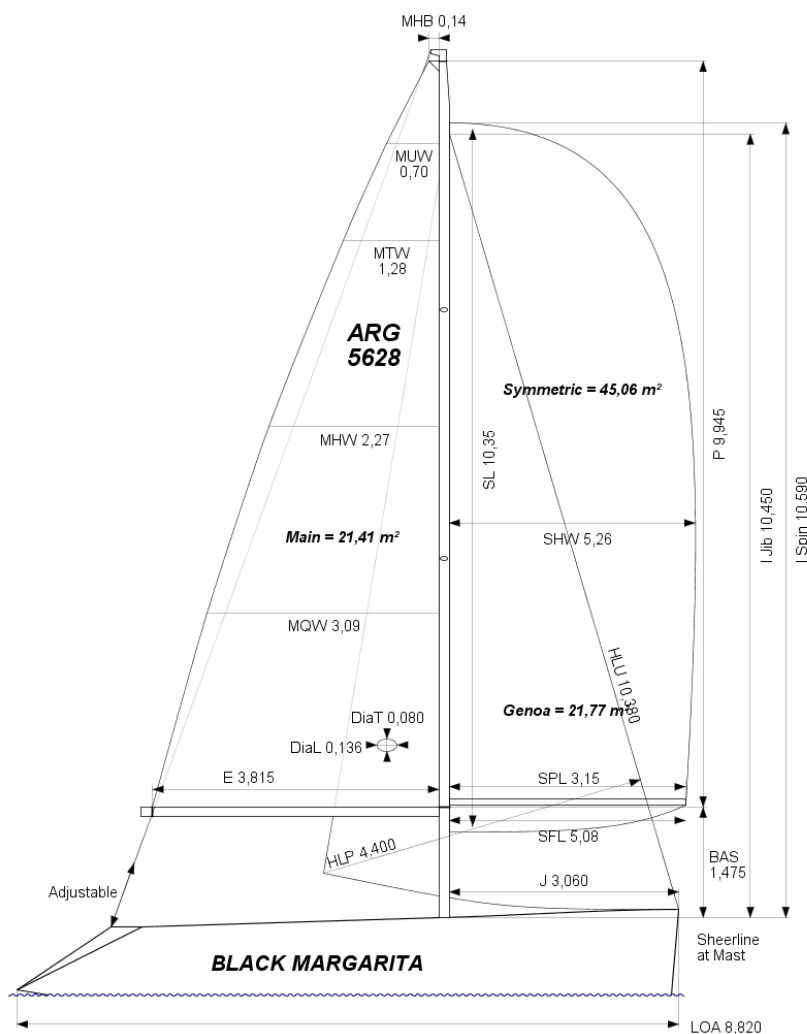
Limit Positive Stab.: **113,1°**
Stability Index: **108,5**

Owner

**RICARDO POLLONO
QUESADA 1610 7°A
CABA**

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

Signature



BOAT	GPH	HULL
Name BLACK MARGARITA Sail Nr ARG-5628	695,1	Data File 2ARG5628 LOA 8,820m Offset File ARG5628.off MB 2,810m Displacement 2.264kg Draft 1,702m
CLASS Class LOTZ 270 Designer N. VOLKER Builder ASTILLERO LOTZ Series 05/1997 Age Date 05/1997 Age Allowance 0,487%		IMS Division Cruiser/Racer Dynamic All. 0,256% Fwd Accom. No Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions
COMMENTS		IMSL 7,836m VCGD -0,060m Sink 12,20kg/mm RL 6,886m VCGM 0,092m WS 15,88m² LSM0 7,627m Displacement/Length ratio 5,1029
PROPELLER Type No Propeller		Water Ballast 0 Trim Tab No
		CENTERBOARD N/A

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	675,2			753,7		
Time On Time	0,8886			0,8956		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	798,4	615,3	548,0	1033,1	756,1	660,0
Time on Time	0,8454	1,0971	1,2318	0,6534	0,8927	1,0227



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BOAT

Name **BLACK MARGARITA**
Sail Nr **ARG-5628**

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TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1179,0	977,6	859,9	804,7	785,8	778,6	784,3
52°	768,8	644,9	584,6	561,7	554,1	550,5	549,7
60°	723,1	612,7	567,3	546,1	536,8	532,4	530,8
75°	686,2	590,9	554,4	530,3	511,0	501,0	495,2
90°	687,5	590,3	547,4	526,3	504,3	482,2	460,1
110°	708,1	589,7	545,3	513,3	481,5	463,7	439,8
120°	732,1	604,0	552,7	521,9	490,4	459,8	417,3
135°	813,0	661,9	580,2	543,7	514,1	483,4	423,5
150°	956,0	754,9	640,6	574,5	541,9	514,2	458,2
Run VMG	1103,9	871,4	736,0	646,4	584,0	549,0	494,9

Selected Courses

Windward / Leeward	1141,5	924,5	797,9	725,5	684,9	663,8	639,6
Circular Random	958,3	773,5	674,3	616,8	581,6	558,7	530,6
Ocean for PCS	1174,1	906,7	756,1	664,3	604,7	562,7	503,3
Non Spinnaker	1003,3	805,1	698,0	635,6	597,3	572,5	541,5

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	43,2°	41,9°	41,6°	39,6°	38,8°	38,6°	39,4°
Beat VMG	3,05	3,68	4,19	4,47	4,58	4,62	4,59
52°	4,68	5,58	6,16	6,41	6,50	6,54	6,55
60°	4,98	5,88	6,35	6,59	6,71	6,76	6,78
75°	5,25	6,09	6,49	6,79	7,04	7,19	7,27
90°	5,24	6,10	6,58	6,84	7,14	7,47	7,82
110°	5,08	6,11	6,60	7,01	7,48	7,76	8,19
120°	4,92	5,96	6,51	6,90	7,34	7,83	8,63
135°	4,43	5,44	6,20	6,62	7,00	7,45	8,50
150°	3,77	4,77	5,62	6,27	6,64	7,00	7,86
Run VMG	3,26	4,13	4,89	5,57	6,16	6,56	7,27
Gybe Angles	147,1°	151,1°	153,4°	162,6°	180,0°	180,0°	180,0°