

BOAT	GPH	HULL
Name BARON ROJO Sail Nr ARG-4770	684,9	Length Overall 8,550m Maximum Beam 2,990m Displacement 2.976kg Draft 1,779m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,217% Fwd Accommodation No Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 8,164m VCGD 0,153m Sink 12,81kg/mm
Class MYSTIC 290 Designer OCEANTECH Builder OCEANTECH Series 12/2002 Age 12/2002 Age Allowance 0,487% Offset File baronroj.off - 18/05/2005 01:52:22 Measurement by P. GUTIERREZ - 11/04/2014		RL 7,028m VCGM 0,192m WS 16,97m²
		LSM0 8,141m Displacement/Length ratio 5,5157



World Leader in Rating Technology

2017
ORC International
Certificate

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



SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	665,6			740,5		
Time On Time	0,9015			0,9115		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	782,2	607,4	542,3	1009,3	744,2	646,5
Time on Time	0,8629	1,1113	1,2447	0,6688	0,9070	1,0441

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1160,0	966,4	857,0	796,5	774,7	765,2	753,7
52°	760,1	640,1	580,7	556,4	547,8	543,8	538,0
60°	716,6	607,5	563,0	542,3	532,2	527,5	523,0
75°	681,0	585,4	549,7	528,9	512,1	500,7	493,3
90°	682,6	581,2	539,6	524,8	506,7	487,3	461,2
110°	689,6	577,1	536,2	508,0	482,7	469,3	448,3
120°	711,4	589,8	542,7	514,9	486,7	458,7	428,3
135°	784,1	641,5	566,2	533,4	507,3	479,9	426,6
150°	921,7	733,0	623,5	561,8	532,3	507,8	457,3
Run VMG	1064,3	846,4	717,0	631,5	572,1	539,5	491,4

Selected Courses							
Windward / Leeward	1112,1	906,4	787,0	714,0	673,4	652,4	622,6
Circular Random	940,2	760,6	664,6	609,1	575,1	552,7	523,3
Ocean for PCS	1148,7	890,1	744,6	655,8	598,2	557,8	500,8
Non Spinnaker	996,1	799,9	693,8	631,8	593,6	568,5	536,0

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	42,8°	41,4°	41,5°	39,8°	38,7°	38,3°	38,2°
Beat VMG	3,10	3,72	4,20	4,52	4,65	4,70	4,78
52°	4,74	5,62	6,20	6,47	6,57	6,62	6,69
60°	5,02	5,93	6,39	6,64	6,76	6,82	6,88
75°	5,29	6,15	6,55	6,81	7,03	7,19	7,30
90°	5,27	6,19	6,67	6,86	7,11	7,39	7,81
110°	5,22	6,24	6,71	7,09	7,46	7,67	8,03
120°	5,06	6,10	6,63	6,99	7,40	7,85	8,40
135°	4,59	5,61	6,36	6,75	7,10	7,50	8,44
150°	3,91	4,91	5,77	6,41	6,76	7,09	7,87
Run VMG	3,38	4,25	5,02	5,70	6,29	6,67	7,33
Gybe Angles	146,8°	151,2°	152,8°	162,2°	180,0°	180,0°	180,0°

Certificate
Number **477001**
ORC Ref **ARG00004510**
Issued On **10/03/2017**
VPP Ver. **2017 1.00**
Valid until **31/12/2017**

Crew Weight

Declared	470kg
Default*	513kg
Non Manual Pwr	No

Special Scoring

	ToD	ToT
Double H.GPH	691,3	0,8679
Double H.OSN	674,1	0,8900
Non Spin GPH	715,8	0,8382
Non Spin OSN	693,3	0,8654

Sails Limitations

Headsails	5
Spinnakers	3

Class Division Length
CDL = **7,597**

Storm Sails Areas

Heavy Weather Jib	17,25
Storm Jib (JL=7,35)	6,39
Storm Trysail	7,27

Owner
DIEGO BELLI

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

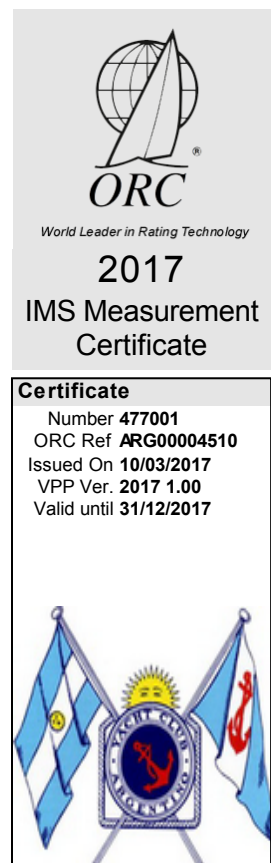
Signature

BOAT Name BARON ROJO Sail Nr ARG-4770 File ARG4770 Data in meters/kilograms				INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 11/04/2014 SG 1,0000			
RIG Forestay Tension Aft Spreaders 2 Inner Stay None Fitted Runners 0 Carbon Mast No Jumper Struts None Taper Hollows No Jib Furler No Fiber Rigging No Main Furler No Lenticular Rigging No Without Backstay No Articulated Bowsprit No				FFM 1,127 FF 1,134 SFFP 0,075 FAM 0,930 FA 0,938 SAFFP 7,989 W1 61,0 PD1 748,2 WD 7,250 W2 61,0 PD2 750,1 GSA 1,0 W3 61,0 PD3 756,9 RSA 1,0 W4 61,0 PD4 749,4 PLM 9000,0 LCF from stem on CL / on sheer 4,791 / 5,003 Maximum beam station from stem 5,340 RM Measured 46,4kg·m RM Default 58,2kg·m Limit of positive stability / Stab.Index 106,9° / 104,3 Freeboard at mast at 3,330 0,991			
MIZZEN RIG AND SAILS N/A				PROPELLER Type No Propeller			
COMMENTS YCCN				MOVEABLE BALLAST N/A			
				CENTERBOARD N/A			

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,150	0,81	1,48	2,54	3,33	24,81	25,38	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	55,40		SL · (SFL + 4·SHW) / 6	
Asymmetric									
Not Available									

HEADSAILS Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)									
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly
0,05	0,52	1,01	1,82	2,63	3,45	11,41	20,47		
0,07	0,49	0,93	1,78	2,60	3,42	11,30	19,86		
Meas.Date Material Comment 11/01/2013 Kevlar 17/03/2011 Kevlar * Copied from legacy *									

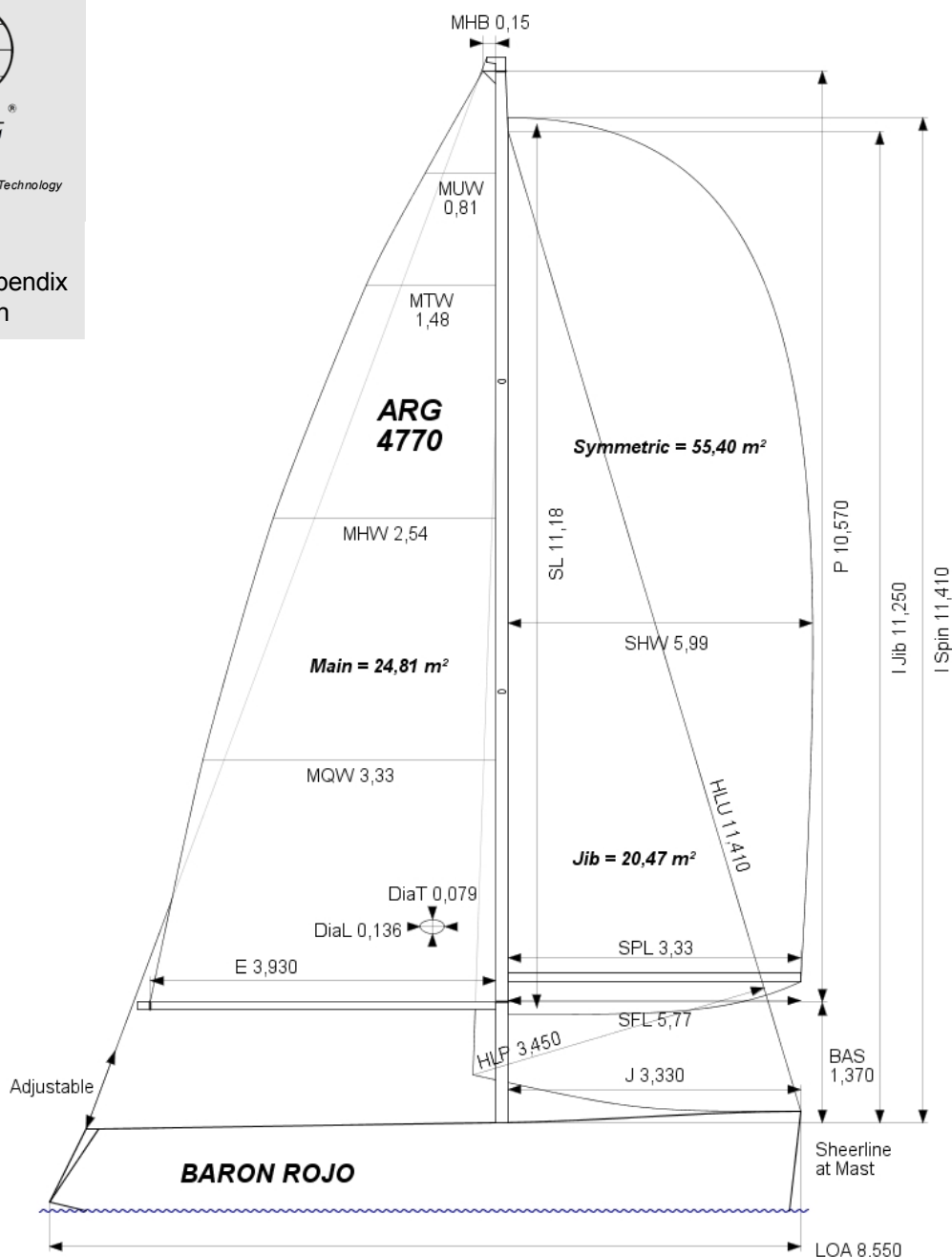
MEASUREMENT INVENTORY					MEASUREMENT INVENTORY				
Measurer	Date	Comment			Id	Item	Tank Use	Tank Type	Capcty
					B4	Tank	AGUA	PVC RIGIDO	10,0
					E3	Tank	NAFTA	PVC RIGIDO	10,0
Id	Item	Weight	Distance	VCG Description	Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model		C6	Ballast	30,0	5,80	0,00 3 LINGOTES DE HIERRO
C4	Engine	SUZUKI	8 HP		C4	Battery	16,0	5,70	0,00 12 V - 65 AMP
Id	Item	Weight	Description						





World Leader in Rating Technology

2017 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M3	0,150	0,81	1,48	2,54	3,33	24,81	PG	11/01/2013	NORTH	Kevlar	* Copied from legacy

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1 LM	0,05	0,52	1,01	1,82	2,63	3,45	11,41	104%	20,47			PG	11/01/2013	NORTH	Kevlar	
G1 V	0,07	0,49	0,93	1,78	2,60	3,42	11,30	103%	19,86				17/03/2011	NORTH	Kevlar	* Copied from legacy *

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2 0,6	11,18	11,18	11,18	5,99	5,77	55,40	PG	11/01/2013	NORTH	Nylon	

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
----	-----	-----	----	-----	-----	------	------	----------	-----------	-------------	----------	---------