



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

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



Certificate

Number **362818**
Issued On **06/07/2016**
ORC Ref **ARG00002683**
VPP Ver. **2016 1.01**
Valid until **31/12/2016**

Crew Weight

Declared **355kg**
Default* **708kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **667,7 0,8986**
Non Spin OSN **647,9 0,9260**
N/S Perf. Line **5,0 0,579**

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 106,24**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **9,204**

Stability

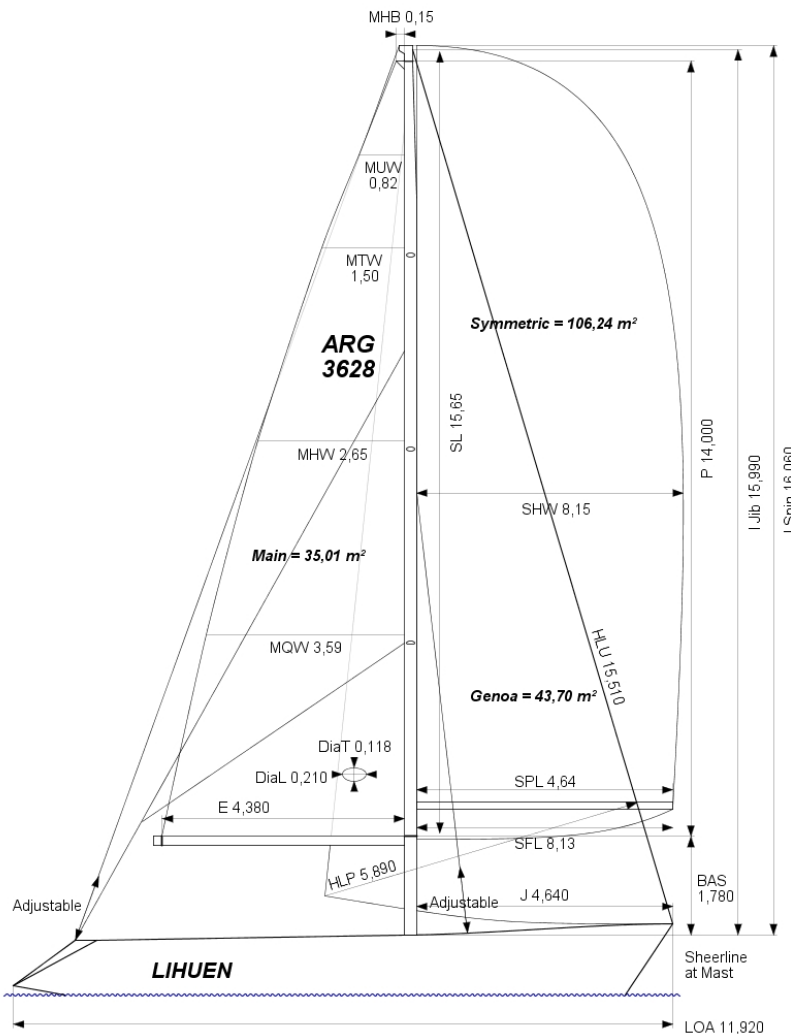
LPS (Estimated): **112,6°**
Stability Index: **114,8**
OSR Category: **N/A**

Owner

**JOAQUIN DOS REIS
ARENALES 1036
ACASSUSO**

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

Signature



BOAT		GPH		HULL		
Name LIHUEN Sail Nr ARG-3628		635,6		Data File 2ARG3628.dxt	LOA 11,920m	
				Offset File ARG3628nk.off	MB 3,914m	
				Displacement 7.745kg	Draft 2,067m	
				IMS Division Cruiser/Racer	Dynamic All. 0,289%	
				Fwd Accom. Yes	Construction Solid	
				Fiber Rigging No	Aramid Core No	
				Crew Arm Ex	Carbon Rudder No	
					Light Stanchions	
				IMSL 10,303m	VCGD 0,023m	
				RL 8,103m	VCGM 0,038m	
				WS 29,70m²		
				LSM0 10,202m	Displacement/Length ratio 7,2940	
				Water Ballast 0	Trim Tab No	
CLASS		CENTERBOARD				
Class PLENAMAR 40		N/A				
Designer NESTOR VOLKER						
Builder AST. PLENAMAR						
Series 01/1991						
Age Date 01/1991						
Age Allowance 0,487%						
COMMENTS						
PROPELLER						
Installation Strut	PRD 0,420					
Type Folding 2 blades	PBW 0,110					
	PIPA 0,0029					
SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	617,2			689,7		
Time On Time	0,9721			0,9787		
Performance Line	PLT	PLD		PLT	PLD	
	0,653	34,0		0,790	175,7	
Triple Number	Low	Medium	High	Low	Medium	High
	0,9174	1,2022	1,3614	0,7080	0,9672	1,1395



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ORC Club Certificate Appendix

BOAT

Name **LIHUEN** Certificate Number **362818**
 Sail Nr **ARG-3628** Issued On **06/07/2016**

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1093,1	909,2	806,1	741,8	709,8	692,8	680,4
52°	709,2	598,0	532,1	502,3	489,0	482,7	477,5
60°	666,6	563,5	509,9	487,3	475,0	468,2	462,5
75°	632,6	536,5	494,6	475,0	461,5	450,4	437,1
90°	637,3	539,9	495,4	476,1	461,7	448,6	425,0
110°	656,3	539,7	489,2	465,4	447,8	437,5	421,2
120°	674,7	554,5	495,6	469,7	449,3	429,6	406,8
135°	743,1	605,1	523,5	485,5	463,8	444,3	406,2
150°	874,9	693,6	588,8	520,3	486,0	465,5	428,8
Run VMG	1010,3	800,9	679,3	596,1	538,9	497,7	456,1

Selected Courses

Windward / Leeward	1051,7	855,1	742,7	669,0	624,3	595,2	568,2
Circular Random	881,1	709,3	616,4	561,8	528,0	506,1	479,8
Ocean for PCS	1080,6	833,1	692,6	606,2	550,1	511,5	460,0
Non Spinnaker	939,3	750,5	646,8	585,0	546,1	520,7	489,6

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	43,9°	42,3°	42,6°	42,1°	40,6°	39,7°	39,8°
Beat VMG	3,29	3,96	4,47	4,85	5,07	5,20	5,29
52°	5,08	6,02	6,77	7,17	7,36	7,46	7,54
60°	5,40	6,39	7,06	7,39	7,58	7,69	7,78
75°	5,69	6,71	7,28	7,58	7,80	7,99	8,24
90°	5,65	6,67	7,27	7,56	7,80	8,03	8,47
110°	5,49	6,67	7,36	7,74	8,04	8,23	8,55
120°	5,34	6,49	7,26	7,66	8,01	8,38	8,85
135°	4,84	5,95	6,88	7,42	7,76	8,10	8,86
150°	4,11	5,19	6,11	6,92	7,41	7,73	8,39
Run VMG	3,56	4,50	5,30	6,04	6,68	7,23	7,89
Gybe Angles	145,5°	150,0°	151,5°	155,0°	171,7°	180,0°	180,0°