

BOAT Name ALMACENERO Sail Nr PER-1101	GPH 525.0	HULL Length Overall 13.800m Maximum Beam 3.078m Displacement 7,254kg Draft 2.823m IMS Reg. Division Performance Dynamic Allowance 0.000% Fwd Accommodation No Hull Construction Light Carbon Rudder Yes Crew Arm Extension
GENERAL Class B&C46 Designer BOTIN/CARKEEK Builder C. de Barcos Series 05/2005 Age 05/2005 Age Allowance 0.455% Offset File CHI1101-n.off - 10/01/2014 09:51:00 Measurement by G LIZA - 07/01/2014		IMSL 12.125m VCGD -0.561m Sink 25.56kg/mm RL 11.397m VCGM -0.321m WS 33.76m² LSM0 11.578m Displacement/Length ratio 4.6739



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Rating Office
Asociacion de Veleros
Oceanicos del Peru
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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	513.3			577.2		
Time on Time	1.1690			1.1695		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	588.9	469.0	419.1	765.5	582.6	509.2
Time on Time	1.1462	1.4391	1.6106	0.8818	1.1586	1.3256

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	831.9	689.0	644.8	625.5	608.0	597.0	595.8
52°	544.2	463.9	445.3	437.5	431.9	425.4	422.4
60°	513.2	446.7	431.4	424.4	420.1	413.1	407.7
75°	491.0	434.9	415.3	405.8	399.6	395.4	382.1
90°	496.4	436.6	411.1	391.9	380.1	372.7	366.2
110°	532.4	443.7	409.7	387.3	372.4	359.8	330.9
120°	553.8	452.8	415.0	385.6	360.7	344.5	317.8
135°	622.3	495.9	437.0	407.7	378.9	350.8	294.9
150°	744.4	590.1	496.7	441.8	412.8	386.0	333.2
Run VMG	859.6	681.4	573.5	505.7	463.1	429.6	379.2

Certificate
Number **1101**
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Issued On **22/05/2019**
VPP Ver. **2019 1.01**
Valid until **31/03/2020**

Crew Weight
Default **848kg**
Maximum **850kg**
Minimum* **638kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **549.5 1.0919**
Non Spin OSN **538.7 1.1139**

Selected Courses							
Windward / Leeward	845.7	685.2	609.1	565.6	535.6	513.3	487.5
Circular Random	713.6	580.1	510.0	469.8	444.5	426.8	402.1
Coastal / Long Distance	847.1	644.5	548.5	490.5	456.0	427.7	385.4
Non Spinnaker	757.3	611.4	533.3	487.5	458.7	439.1	413.8

Sails Limitations
Headsails **7** Spinnakers **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	42.8°	40.8°	39.1°	39.0°	38.4°	38.1°	38.5°
Beat VMG	4.33	5.23	5.58	5.76	5.92	6.03	6.04
52°	6.62	7.76	8.08	8.23	8.34	8.46	8.52
60°	7.02	8.06	8.34	8.48	8.57	8.71	8.83
75°	7.33	8.28	8.67	8.87	9.01	9.10	9.42
90°	7.25	8.25	8.76	9.19	9.47	9.66	9.83
110°	6.76	8.11	8.79	9.29	9.67	10.00	10.88
120°	6.50	7.95	8.67	9.34	9.98	10.45	11.33
135°	5.78	7.26	8.24	8.83	9.50	10.26	12.21
150°	4.84	6.10	7.25	8.15	8.72	9.33	10.80
Run VMG	4.19	5.28	6.28	7.12	7.77	8.38	9.49
Gybe Angles	141.3°	142.0°	147.3°	154.4°	163.3°	180.0°	180.0°

Class Division Length
CDL = **11.762**

Storm Sails Areas
Heavy Weather Jib **40.86**
Storm Jib (JL=11.31) **15.14**
Storm Trysail **21.99**

Owner
ROBERTO LEVAGGI
AZPILCUETA

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

Signature

BOAT	
Name ALMACENERO	Sail Nr PER-1101
File PER1101	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 14/06/2017	SG 1.0253	
FFM 1.505	FF 1.506	SFFP 0.130
FAM 1.169	FA 1.169	SAFP 13.600
W1 135.0	PD1 490.6	WD 10.805
W2 135.0	PD2 485.9	GSA 1.0
W3 135.0	PD3 481.6	RSA 1.0
W4 135.0	PD4 486.9	PLM 9000.0
LCF from stem on CL / on sheer		7.299 / 7.460
Maximum beam station from stem		7.817
RM Measured		236.2kg-m
RM Default		242.2kg-m
Limit of positive stability / Stab.Index		140.2° / 147.8
Freeboard at mast at 5.530		1.252



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RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners 0
Carbon Mast Yes	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 18.610	E 6.750 MDT1 0.145 MW 0.257
IG 17.286	J 5.215 MDL1 0.257 GO 0.290
ISP 17.346	SFJ 0.315 MDT2 0.086 BD 0.440
BAS 1.756	SPL 5.215 MDL2 0.159 MWT 264.00
FSP 0.072	TPS TL 2.296 MCG 7.326

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.434	
Type Folding 2 blades	PBW 0.114	
Twin Screw No	PIPA 0.0038	
ST1 0.048	ST3 0.175 ST5 0.280	
ST2 0.175	ST4 0.112 EDL 1.293	

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COMMENTS	
CAMBIO ARMADOR EX VTR CHI 1101	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.220	1.56	2.72	4.42	5.63	75.84	78.16	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL			SL · (SFL + 4·SHW) / 6	
	17.00	17.00	17.00	9.49	9.21	133.65			
Asymmetric	SLU	SLE	SL	SHW	SFL		Area (r)	AS · (SFL + 4·SHW) / 6	
	17.25	15.87	16.56	6.94	9.16	101.90	107.68		

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	Meas.Date	Material	Comment
0.10	0.77	1.47	2.86	4.20	5.52	17.40	49.17	N		08/09/2017	Carbon	NUEVA
0.12	0.78	1.48	2.82	4.16	5.52	17.41	48.96			29/09/2008	Unknow	
0.10	0.77	1.48	2.85	4.17	5.49	17.35	48.82			29/09/2008	Unknow	
0.10	0.77	1.47	2.84	4.17	5.48	17.35	48.72			29/09/2008	Unknow	
0.10	0.73	1.42	2.77	4.13	5.50	17.38	48.21			08/01/2014	Kevlar	NUEVA
0.07	0.71	1.37	2.69	4.07	5.46	17.39	47.36			29/09/2008	Unknow	
0.09	0.62	1.19	2.41	3.69	5.12	13.83	34.31			23/09/2017	Kevlar	
0.04	0.52	1.03	2.07	3.15	4.29	14.19	29.89			23/09/2017	Dacron	

MEASUREMENT INVENTORY				
Measurer Patricio Gutierrez				
Date 13/06/2017				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
3A	Engine	YANMAR	29HP	
Id	Item	Weight	Description	

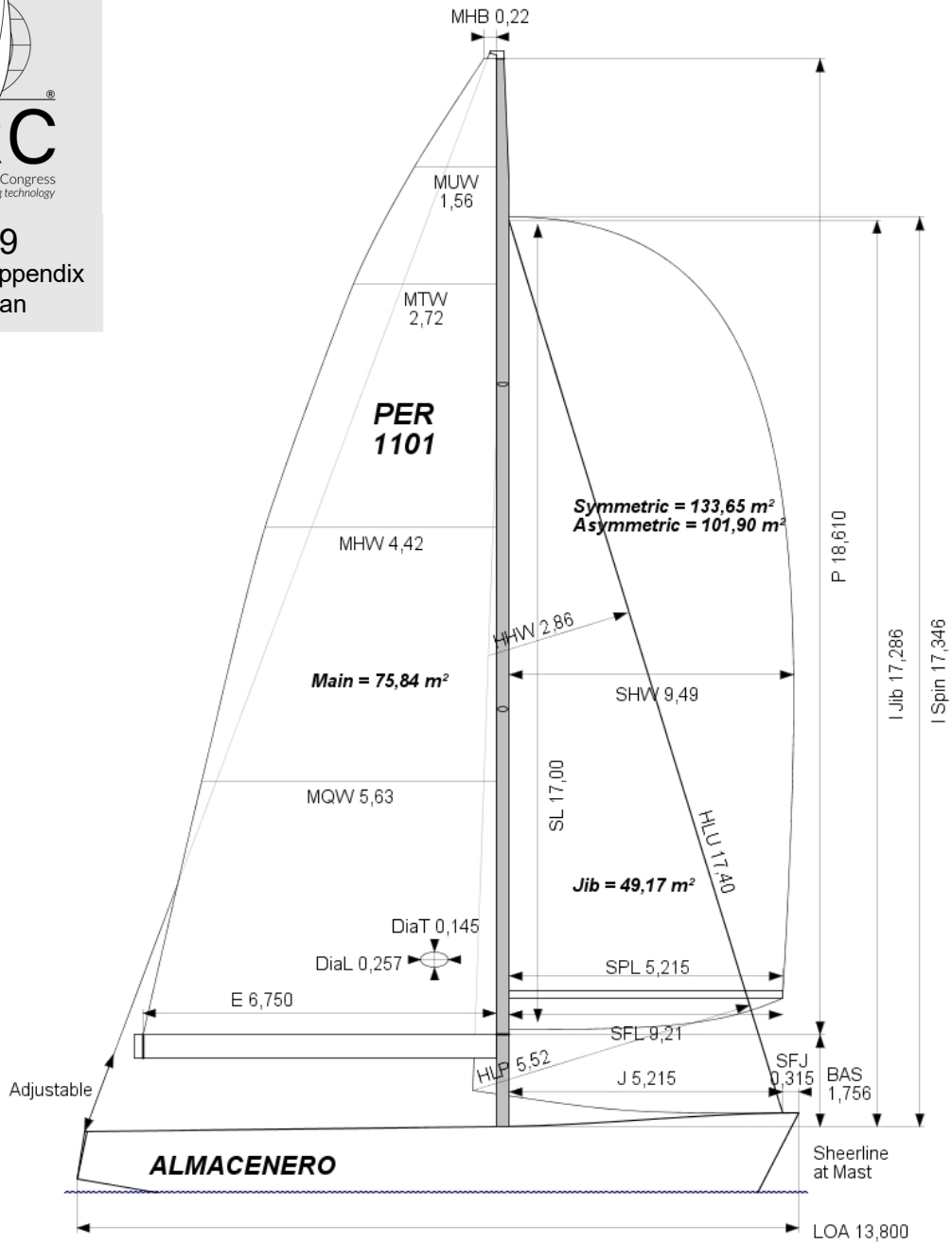
MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description	
C4	Tank	COMBUSTIB	ACERO INOX	80.0	6.67	0.20	0.0	EN CRUGIA A POPA	
4A	Tank	AGUA	FLEX	70.0	9.61		0.0	A BABOR	
Id	Item	Weight	Distance	VCG Description					
L1	Ballast	194.0	7.81	04 BARRAS A ESTRIBOR					
L2	Ballast	200.0	7.17	0.00 03 BARRAS A ESTRIBOR					
L3	Ballast	200.0	7.17	0.00 03 BARRA A BABOR					
L4	Ballast	194.0	7.81	0.00 04 BARRAS A BABOR					
C6	Battery	28.0	7.81	0.20 2 BATERIAS DE 12 PLACAS					



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Sail Plan**



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M1-17	0.22	1.56	2.72	4.42	5.63	75.84	G LIZA	08/09/2017	NORTH	Carbon	NUEVA

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1-17	0.10	0.77	1.47	2.86	4.20	5.52	17.40	106%	49.17	N		G LIZA	08/09/2017	NORTH	Carbon	NUEVA
1,3	0.12	0.78	1.48	2.82	4.16	5.52	17.41	106%	48.96				29/09/2008		Unknow	
1	0.10	0.77	1.48	2.85	4.17	5.49	17.35	105%	48.82				29/09/2008		Unknow	
1,2	0.10	0.77	1.47	2.84	4.17	5.48	17.35	105%	48.72				29/09/2008		Unknow	
1 MH	0.10	0.73	1.42	2.77	4.13	5.50	17.38	105%	48.21			G LIZA	08/01/2014	NORTH	Kevlar	NUEVA
1,1	0.07	0.71	1.37	2.69	4.07	5.46	17.39	105%	47.36				29/09/2008		Unknow	
4-A	0.09	0.62	1.19	2.41	3.69	5.12	13.83	98%	34.31			G LIZA	23/09/2017	NORTH	Kevlar	

SYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S 2A	17.00	17.00	17.00	9.49	9.21	133.65	F CARLIER	21/01/2010		Unknown	
S 2	17.08	17.08	17.08	9.34	9.25	132.69	G LIZA	23/09/2017	NORTH	Nylon	ROJ/AZUL/BCO
S 1	17.08	17.08	17.08	9.22	9.35	131.61	F CARLIER	21/01/2010	NORTH	Unknown	
S1.5	17.08	17.08	17.08	9.15	9.37	130.87	G LIZA	08/01/2014	NORTH	Nylon	NUEVA

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
COD 0	17.25	15.87	16.56	6.94	9.16	101.90	asym	G LIZA	06/10/2017	NORTH	Nylon	NUEVO