

BOAT Name CUZCO Sail Nr FRA-7649	GPH 670.8	HULL Length Overall 7.850m Maximum Beam 2.498m Displacement 1,405kg Draft 1.851m IMS Reg. Division Sportboat Dynamic Allowance 0.175% Fwd Accommodation No Hull Construction Solid Carbon Rudder Yes Crew Arm Extension IMSL 6.967m VCGD -0.094m Sink 9.18kg/mm RL 7.509m VCGM -0.072m WS 12.59m² LSM0 6.838m Displacement/Length ratio 4.3943
GENERAL Class FIRST CLASS 8 MOD Designer FINOT Builder BENETEAU Series 01/1982 Age 01/1987 Age Allowance 0.487% Offset File F035mod.off - 14/09/2018 16:33:38 Measurement by - 08/09/2018		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	652.8			733.7		
Time on Time	0.9192			0.9199		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	755.4	599.2	533.1	968.2	733.6	649.6
Time on Time	0.8936	1.1265	1.2662	0.6972	0.9201	1.0391

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1099.2	910.3	806.9	770.6	758.8	754.7	754.4
52°	730.2	624.8	583.1	564.4	557.1	553.3	547.5
60°	695.8	606.4	571.1	548.2	537.1	531.6	526.5
75°	673.3	594.1	560.4	530.2	507.2	496.1	488.8
90°	654.9	575.3	542.2	524.1	498.1	471.9	446.5
110°	653.4	570.6	524.9	486.6	465.0	445.6	415.7
120°	676.9	580.7	534.5	490.4	449.4	419.0	385.9
135°	759.1	620.6	563.6	521.1	480.5	438.8	350.8
150°	898.0	715.6	616.3	572.6	540.3	507.1	420.4
Run VMG	1036.9	826.3	711.7	659.0	600.4	563.9	485.5

Certificate
Number **764901**
ORC Ref **ESP00002047**
Issued On **09/01/2019**
VPP Ver. **2019 1.00**
Valid until **31/12/2019**

Crew Weight
Default 400kg
Maximum **400kg**
Minimum* **300kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	685.3	0.8755
Double H.OSN	669.6	0.8961
Non Spin GPH	712.0	0.8427
Non Spin OSN	687.5	0.8728

Selected Courses							
Windward / Leeward	1068.1	868.3	759.3	714.8	679.6	659.3	620.0
Circular Random	911.1	741.6	652.0	600.0	566.9	543.2	507.3
Coastal / Long Distance	1065.0	818.5	691.0	624.1	580.7	544.3	483.4
Non Spinnaker	989.2	795.0	690.3	629.1	590.7	564.7	528.8

Sails Limitations

Headsails	Spinnakers
5	3

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	41.3°	39.7°	37.1°	35.8°	35.3°	35.3°	35.9°
Beat VMG	3.27	3.95	4.46	4.67	4.74	4.77	4.77
52°	4.93	5.76	6.17	6.38	6.46	6.51	6.58
60°	5.17	5.94	6.30	6.57	6.70	6.77	6.84
75°	5.35	6.06	6.42	6.79	7.10	7.26	7.37
90°	5.50	6.26	6.64	6.87	7.23	7.63	8.06
110°	5.51	6.31	6.86	7.40	7.74	8.08	8.66
120°	5.32	6.20	6.74	7.34	8.01	8.59	9.33
135°	4.74	5.80	6.39	6.91	7.49	8.20	10.26
150°	4.01	5.03	5.84	6.29	6.66	7.10	8.56
Run VMG	3.47	4.36	5.06	5.46	6.00	6.38	7.42
Gybe Angles	144.6°	147.7°	149.2°	151.5°	176.9°	177.6°	137.0°

Class Division Length
CDL = **7.239**

Storm Sails Areas

Heavy Weather Jib	13.07
Storm Jib (JL=6.40)	4.84
Storm Trysail	6.01

Owner

BOAT	
Name CUZCO	Sail Nr FRA-7649
File FRA7649	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 1
Inner Stay None Fitted	Runners 1
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 10.030	E 3.420 MDT1 0.090 MW 0.150
IG 9.838	J 2.820 MDL1 0.130 GO 0.150
ISP 9.938	SFJ 0.000 MDT2 0.085 BD 0.128
BAS 1.038	SPL 0.115 MWT
FSP 0.000	TPS 3.760 TL 1.060 MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 08/09/2018		SG 1.0250	
FFM 0.861	FF 0.861	SFFP 0.792	
FAM 0.696	FA 0.696	SAFP 7.302	
W1 30.3	PD1 645.1	WD 8.300	
W2 30.3	PD2 648.2	GSA 1.0	
W3 30.3	PD3 647.8	RSA 1.0	
W4 30.3	PD4 649.6	PLM 9000.0	
LCF from stem on CL / on sheer		4.263 / 4.389	
Maximum beam station from stem		5.028	
RM Measured		30.6kg-m	
RM Default		32.4kg-m	
Limit of positive stability / Stab.Index		112.4° / 104.9	
Freeboard at mast at 2.820		0.777	



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MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Type No Propeller	

Certificate	
Number 764901	
ORC Ref ESP00002047	
Issued On 09/01/2019	
VPP Ver. 2019 1.00	
Valid until 31/12/2019	

COMMENTS	
QUILLA MODIFICADA 08/18 FOQUE CON GARRUCHOS	

MOVABLE BALLAST	
N/A	



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CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.150	0.88	1.46	2.28	2.90	21.22	21.74	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL	Area	Formula		
	11.45	10.22	10.84	5.93	6.25	54.12	AS · (SFL + 4·SHW) / 6		

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
0.05	0.45	0.86	1.75	2.68	3.71	8.32	14.97			08/09/2018	Unknow	
0.05	0.37	0.72	1.40	2.09	2.73	6.90	9.63	Y		08/09/2018	Unknow	

MEASUREMENT INVENTORY				
Measurer ESP 788				
Date 08/09/2018				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	FUERABORDA	5 CV	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

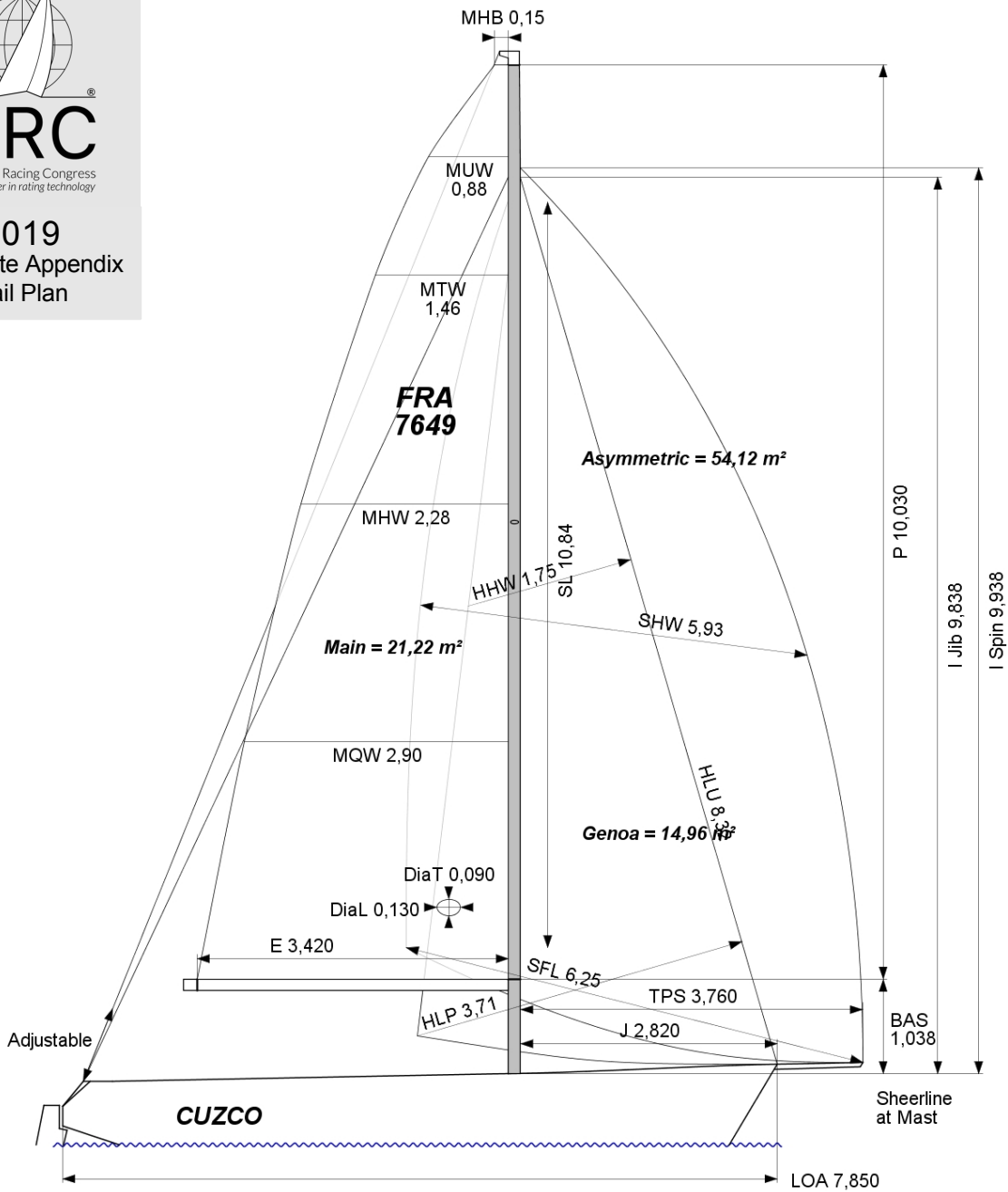
MEASUREMENT INVENTORY				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
1	Battery			70 Ah a J+0



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.15	0.88	1.46	2.28	2.90	21.22		08/09/2018		Unknown	

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0.05	0.45	0.86	1.75	2.68	3.71	8.32	132%	14.97				08/09/2018		Unknown	
G2	0.05	0.37	0.72	1.40	2.09	2.73	6.90	97%	9.63	Y			08/09/2018		Unknown	

SYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A	11.45	10.22	10.84	5.93	6.25	54.13	asym		03/11/2018	NORTH	Unknown	