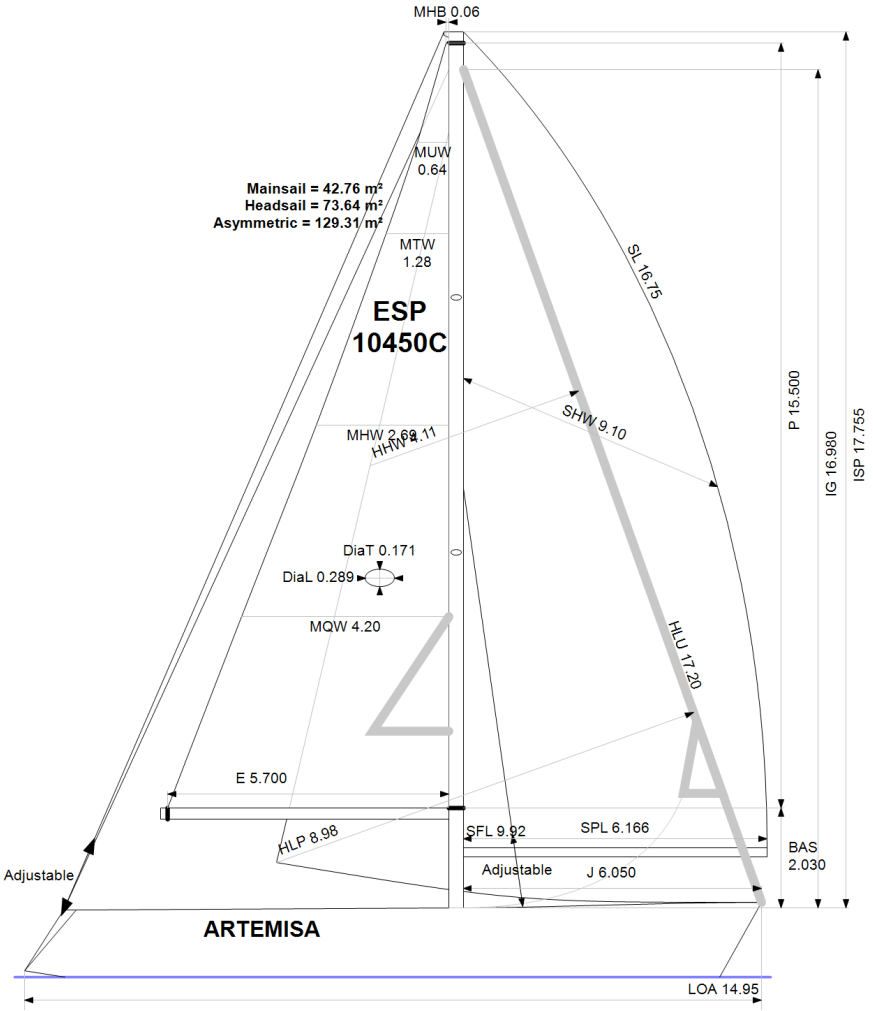
Club Certificate 2022

Boat
ARTEMISA
ESP-10450_C

RFEV
c/ Gamazo sn
39004 Santander – España
crucero@rfev.es

APH: **513.5** CDL: **11.644**

GPH: **585.5** CertNo: **104501**



BOAT

Class	**BENETEAU 50**
Designer	**RACOUPEAU / BERRET**
Builder	**BENETEAU**
Age date	**01/1997**
Series date	**01/1996**
Offset file	**BENE50SD.OFF**
Data file	**E10450_C**

HULL

Length Overall	**14.950 m**
Maximum Beam	**4.476 m**
Draft	**2.307 m**
Displacement	**11,830 kg**
DLR	**4.8074**
IMS Division	**Cruiser/Racer**
Dynamic Allowance	**0.366%**
Age Allowance	**0.487%**

PROPELLER

Installation	**Shaft non exposed**
Type	**Feathering 3 blades**
Diameter	**0.300m**

CREW

Maximum weight	**720 kg**
Minimum weight	**540 kg** ** when applied*
Non Manual Power	**Yes**
Crew Arm Extension	

SAIL AREAS (m²)

	Measured	Rated
Mainsail	**42.76**	**42.56**
Headsail Luffed	**73.64**	**73.64**
Headsail Flying		
Symmetric		
Asymmetric	**129.31**	**131.85**

(All asymmetric spinnakers with SHW/SFL > 85%)

STORM SAIL AREAS (m²)

Trysail	**15.47**
Storm Jib	**14.81**
Heavy Weather Jib	**39.98**

SAIL LIMITS

Headsails	**1** ** Woven polyester sails*
Spinnakers	**5** ** Asymmetric may be tacked on the pole*

STABILITY

Righting Moment	**550.0 kg·m**
Stability Index	**N/A**

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.

Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	45.4°	43.8°	43.0°	42.4°	40.6°	40.0°	39.0°
Beat VMG	3.34	4.16	4.82	5.38	5.80	6.02	6.22
52°	5.23	6.42	7.34	8.00	8.37	8.59	8.79
60°	5.65	6.82	7.72	8.26	8.58	8.82	9.12
75°	5.99	7.15	8.00	8.46	8.78	9.08	9.65
90°	5.91	7.09	8.02	8.61	9.01	9.35	9.87
110°	5.75	7.14	8.18	8.75	9.23	9.76	10.80
120°	5.59	6.95	8.03	8.65	9.14	9.69	10.90
135°	5.02	6.35	7.46	8.26	8.76	9.22	10.33
150°	4.22	5.42	6.48	7.43	8.19	8.67	9.55
Run VMG	3.65	4.70	5.61	6.44	7.17	7.79	8.74
Gybe Angles	143.3°	146.0°	148.4°	150.5°	155.6°	164.6°	177.2°

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Time Allowances in secs/NM							
Wind Velocity	**6 kt**	**8 kt**	**10 kt**	**12 kt**	**14 kt**	**16 kt**	**20 kt**
Beat VMG	1078.2	864.6	746.3	669.4	621.1	597.6	578.9
52°	688.0	560.9	490.3	450.1	430.2	419.2	409.6
60°	637.7	528.1	466.1	435.7	419.4	408.1	394.8
75°	601.4	503.4	450.0	425.5	410.1	396.6	372.9
90°	609.4	507.8	449.1	418.2	399.8	385.1	364.8
110°	625.6	504.3	440.0	411.7	390.2	368.9	333.4
120°	643.7	518.0	448.1	416.1	394.0	371.6	330.4
135°	716.9	567.0	482.7	435.7	410.9	390.3	348.7
150°	854.1	664.0	555.5	484.3	439.6	415.2	376.9
Run VMG	986.2	766.7	641.5	559.1	502.0	462.1	411.8
Selected Courses							
Windward / Leeward	1032.2	815.7	693.9	614.3	561.5	529.9	495.3
All purpose	783.9	628.7	542.0	490.7	458.3	437.2	409.3

Single Number Scoring Options		
Course	**Time On Distance**	**Time On Time**
Windward / Leeward	646.3	0.9284
All purpose	513.5	1.1684

Custom scoring options for Spain

Single Number	**Time On Distance**
Coastal/Long Distance	564.7
Triple Number Coastal/Long Distance Low	706.3
Triple Number Coastal/Long Distance Medium	511.2
Triple Number Coastal/Long Distance High	432.0
Triple Number Windward/Leeward Low	923.9
Triple Number Windward/Leeward Medium	644.4
Triple Number Windward/Leeward High	524.8

Performance Curve	**6 kt**	**8 kt**	**10 kt**	**12 kt**	**14 kt**	**16 kt**	**20 kt**
Coastal/Long Distance	1027.6	763.4	618.3	526.9	476.3	441.7	391.0

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Data in **meters/kilograms (Metric)**

HULL AND APPENDAGES (Lightship Trim)

Class	**BENETEAU 50**	LOA	**14.950**	VCGD	**-1.078**
Measurement	**09/08/2017**	Max. Beam	**4.476**	VCGM	**-0.741**
HIN		Draft	**2.307**	RM Measured (kg·m)	**550.0**
Plan review		Displacement	**11,830**	RM Default (kg·m)	**379.9**
Hull construction	**Solid**	Wetted area	**45.44**	Limit of positive stability(°)	**N/A**
Aramid Hull Core	**No**	IMS L	**13.335**	Stability Index	**N/A**
Carbon Rudder	**No**	LSM0	**13.499**		
Light stanchions	**No**	Acc. length	**14.547**		
Trim tab	**No**	Sink (kg/mm)	**33.78**		

PROPELLER

Propeller Type	**Feathering 3 blades**				
Installation	**Shaft non exposed**	PRD	**0.300**	PSD	PSA
Twin screw	**No**	PBW		PHD	ESL
Hydro generator	**No**	PIPA	**0.0004**	PHL	

RIG

Forestay tension	**Aft**	P	**15.500**	E	**5.700**
Inner stay	**Adjustable**	IG	**16.980**	J	**6.050**
Carbon mast	**No**	ISP	**17.755**	BAS	**2.030**
Headsail furler	**Yes**	MDT1	**0.171**	FSD	**0.042**
Mainsail furler	**Yes**	MDL1	**0.289**	SFJ	
Articulated bowsprit	**No**	MDT2	**0.171**	SPL	**6.166**
Non-circular rigging	**No**	MDL2	**0.289**	WPL	
Fiber rigging	**No**	TL		TPS	
Runners/Checkstays	**1**	MW	**0.290**	BD	**0.230**
Spreaders	**2**	GO	**0.370**	MWT	
				MCG	

FLOTATION AND STABILITY

Calculation method	**RM entered directly**	SFFP	**0.740**	SAFP	**13.893**
Flotation Date	**01/01/2010**	FFM		FAM	
Measurer	**857**	FF	**1.508**	FA	**1.358**
Comment		LCFcl	**8.296**	LCFsh	**8.585**
		SG		HBI	**1.399**

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MAINSAIL

Id	*MHB*	*MUW*	*MTW*	*MHW*	*MQW*	*Area*	*Meas.Date*	*Maker*	*Material*	*Comment*
001	0.06	0.64	1.28	2.69	4.20	42.76	16/08/2017	ELVTROM	Dacron	

HEADSAIL

Id	*HHB*	*HUW*	*HTW*	*HHW*	*HQW*	*HLP*	*HLU*	*Btn*	*Flying*	*FT*	*Area*	*Meas.Date*	*Maker*	*Material*	*Comment*
001	0.07	0.98	1.94	4.11	6.47	8.98	17.20	No	No		73.64	16/08/2017	ELVSTROM	Dacron	

ASYMMETRIC SPINNAKER

Id	*SLU*	*SLE*	*SL*	*SHW*	*SFL*	*Ratio*	*Area*	*Meas.Date*	*Maker*	*Material*	*Comment*
001	17.76	15.74	16.75	9.10	9.92	92%	129.31	16/08/2017	NEIL PRYDE	Unknown	