

BOAT Name BLAUMARINA I Sail Nr ESP-5285	GPH 672,6	HULL Length Overall 9,490m Maximum Beam 3,216m Displacement 3.644kg Draft 1,923m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,313% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class FIRST 31.7 Designer FINOT Builder BENETEAU Series 09/1998 Age 07/1999 Age Allowance 0,487% Offset File E5558B.OFF - 30/01/2004 16:23:00 Measurement by - 19/02/2011		IMSL 8,912m VCGD 0,189m Sink 15,38kg/mm RL 7,510m VCGM 0,152m WS 20,36m² LSM0 8,851m Displacement/Length ratio 5,2553



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time on Distance	652,1			727,7		
Time on Time	0,9201			0,9276		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	776,3	593,8	530,9	1002,2	731,1	636,8
Time on Time	0,8695	1,1367	1,2715	0,6735	0,9233	1,0600

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1129,3	934,9	824,6	770,6	754,1	749,3	757,6
52°	739,7	625,5	563,5	538,7	530,5	527,4	528,5
60°	700,2	596,6	546,6	525,3	515,8	512,0	511,2
75°	671,4	575,8	534,4	513,3	498,9	489,4	483,2
90°	681,0	577,6	529,4	508,1	492,5	476,0	453,0
110°	694,5	572,7	522,0	494,8	470,6	453,1	431,9
120°	717,4	587,0	528,3	499,4	473,4	448,2	411,1
135°	796,2	644,9	557,9	518,3	492,2	465,8	415,1
150°	943,0	741,2	625,5	553,4	518,2	493,8	445,3
Run VMG	1088,9	855,9	721,0	630,9	568,2	528,0	479,9

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ORC Ref **ESP00002741**
Issued On **02/02/2019**
VPP Ver. **2019 1.01**
Valid until **31/12/2019**

Crew Weight
Default **578kg**
Maximum **405kg**
Minimum* **304kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	680,6	0,8816
Double H.OSN	661,3	0,9074
Non Spin GPH	701,6	0,8552
Non Spin OSN	678,8	0,8839

Selected Courses							
Windward / Leeward	1109,1	895,4	772,8	700,7	661,2	638,7	618,7
Circular Random	930,3	749,2	652,1	596,0	562,2	540,9	516,1
Coastal / Long Distance	1107,1	841,4	696,6	613,3	572,0	540,2	489,5
Non Spinnaker	982,8	786,1	679,3	617,1	579,3	555,4	527,4

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	42,7°	41,0°	40,3°	39,4°	39,0°	38,9°	39,4°
Beat VMG	3,19	3,85	4,37	4,67	4,77	4,80	4,75
52°	4,87	5,76	6,39	6,68	6,79	6,83	6,81
60°	5,14	6,03	6,59	6,85	6,98	7,03	7,04
75°	5,36	6,25	6,74	7,01	7,22	7,36	7,45
90°	5,29	6,23	6,80	7,09	7,31	7,56	7,95
110°	5,18	6,29	6,90	7,28	7,65	7,94	8,34
120°	5,02	6,13	6,81	7,21	7,60	8,03	8,76
135°	4,52	5,58	6,45	6,95	7,31	7,73	8,67
150°	3,82	4,86	5,76	6,50	6,95	7,29	8,08
Run VMG	3,31	4,21	4,99	5,71	6,34	6,82	7,50
Gybe Angles	146,1°	150,2°	152,2°	157,4°	175,4°	180,0°	180,0°

Class Division Length
CDL = **8,211**

Storm Sails Areas

Heavy Weather Jib	19,08
Storm Jib (JL=7,73)	7,07
Storm Trysail	7,19

Owner

BOAT		
Name	BLAUMARINA I	Sail Nr
File	E5285	ESP-5285
		Data in
		meters/kilograms

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			
P	10,800	E	3,800	MDT1
IG	11,830	J	3,500	MDL1
ISP	11,832	SFJ	0,065	MDT2
BAS	1,695	SPL	3,530	MDL2
FSP	0,060	TPS		TL
		MW	0,158	GO
		BD	0,110	MWT
		BD	0,110	MWT
		MWT	81,00	MCG
		MCG	4,250	

INCLINING TEST AND FREEBOARDS					
Inclining Test Current Inclining					
Flotation date			19/02/2011	SG	
				1,0270	
FFM	1,158	FF	1,159	SFFP	0,303
FAM	0,985	FA	0,989	SAFP	8,732
W1	36,8	PD1	407,7	WD	10,310
W2	36,8	PD2	408,3	GSA	1,0
W3	36,8	PD3	408,9	RSA	1,0
W4	36,8	PD4	408,7	PLM	9000,0
LCF from stem on CL / on sheer				5,233 / 5,463	
Maximum beam station from stem				6,386	
RM Measured				73,2kg-m	
RM Default				75,1kg-m	
Limit of positive stability / Stab.Index				109,3° / 107,2	
Freeboard at mast at 3,565				1,047	



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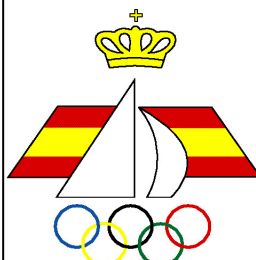
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MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation	Strut	PRD
Type	Folding 2 blades	PBW
Twin Screw	No	PIPA
ST1	0,047	ST3
ST2	0,170	ST4
		ST5
		EDL
		0,995

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COMMENTS	
Modificacion Timón 2009	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,160	0,85	1,47	2,43	3,19	24,54	25,05	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL				
	11,70	11,70	11,70	6,20	6,10	60,26		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	Meas.Date	Material
0,10	0,62	1,17	2,35	3,60	4,88	11,74	28,23			18/01/2017	Unknow

MEASUREMENT INVENTORY				
Measurer ESP 24/ESP421				
Date 19/02/2011				
Comment				
Id	Item	Weight	Distance	VCG Description
4	Anchor	10,0	4,50	Ancla
4	Chain	6,0	4,50	10 metros-
4	Tools	8,0	4,50	HERRAMIENTAS
Id	Item	Weight Description		
4	Deck-Gear	8,0		

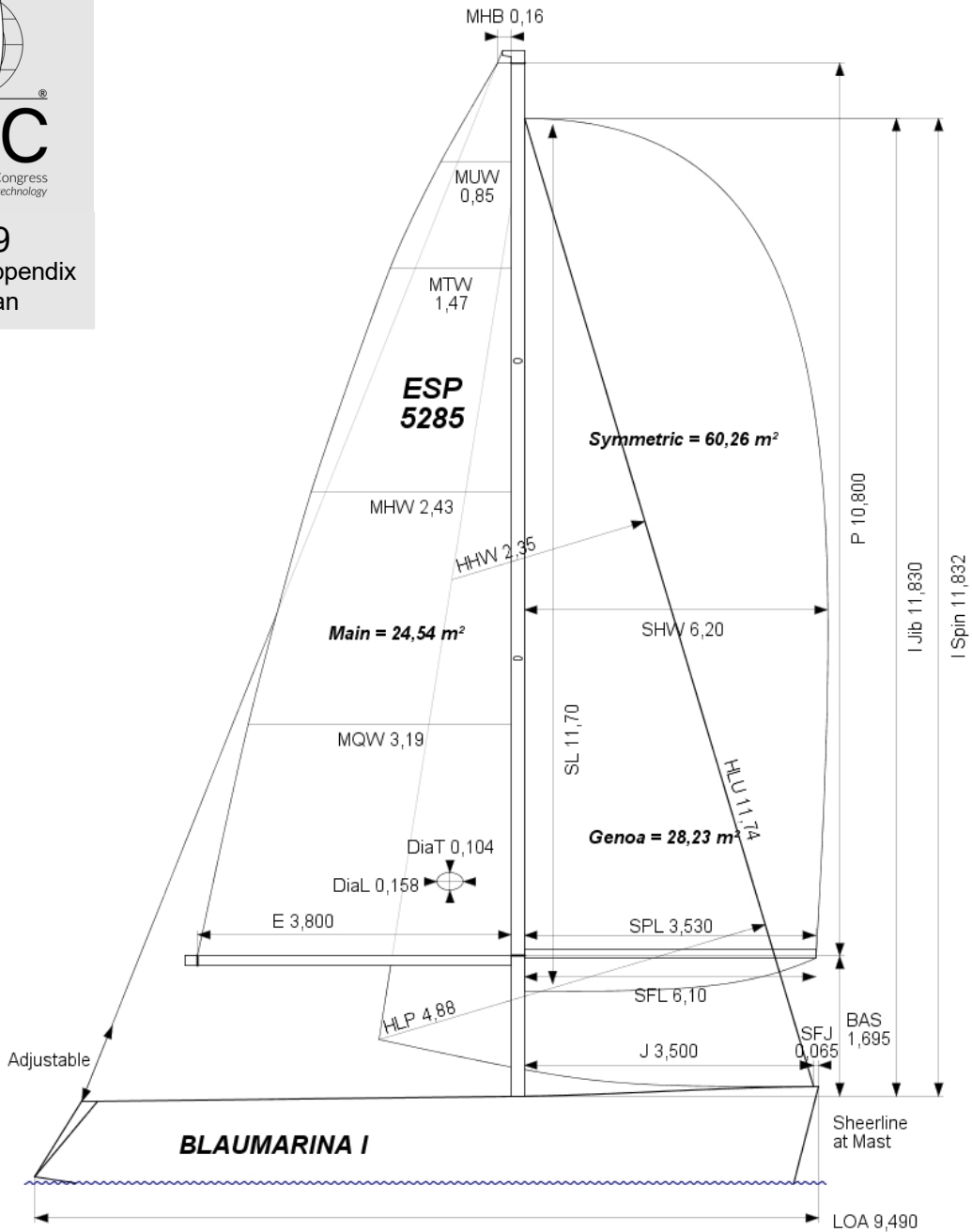
MEASUREMENT INVENTORY							
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG
1	Tank fuel			inox	60,0	8,50	15,0
Id	Item	Weight	Distance	VCG Description			
1	Battery	6,50		DOS BATERIAS			



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,16	0,85	1,47	2,43	3,19	24,54				Unknown	

HEADSAILS (1)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
IIGERO	0,10	0,62	1,17	2,35	3,60	4,88	11,74	139%	28,23				18/01/2017			Unknow

SYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	11,70	11,70	11,70	6,20	6,10	60,26		19/02/2014	Matheu	Nylon	

ASYMMETRIC SPINNAKERS (0)

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