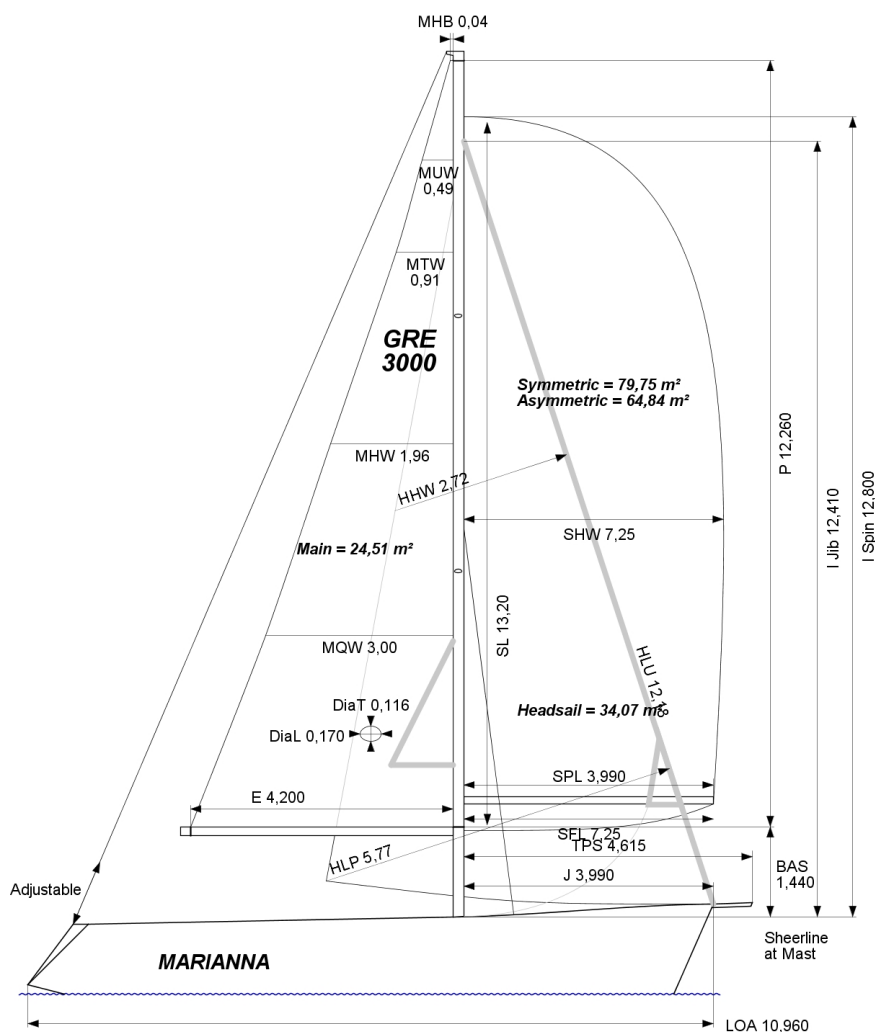




ORC
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2020
ORC Club
Certificate

Rating Office

Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate

Number **00053**
Issued On **26/06/2020**
ORC Ref **03420000LH4**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default 675kg
Maximum **400kg**
Minimum* **300kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **710.0 0.8451**
Non Spin OSN **685.8 0.8749**

Sails Limitations

Headsails **1** Spinnakers **4**
Woven Polyester

Spinnaker configuration
Symmetric: **Yes 79.75**
Asymmetric: **Yes 64.84**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.461

Stability (Estimated)

Limit Positive Stab.: **111.2°**
Stability Index: **111.1**

Owner

BOAT		GPH		HULL		
Name	MARIANNA	673.7	Data File	GR3000	LOA 10.960m	
Sail Nr	GRE-3000		Offset File	BAV36SKC.OFF	MB 3.608m	
			Displacement	5,500kg	Draft 1.547m	
CLASS			IMS Division	Cruiser/Racer	Dynamic All. 0.407%	
Class	BAVARIA 36 CRUISER		Plan Review		Construction Solid	
Designer	J & J		Fiber Rigging	No	Aramid Core No	
Builder	BAVARIA		Crew Arm Ex		Carbon Rudder No	
Series	06/2004				Light Stanchions No	
Age Date	06/2004		IMSL	9.914m	VCGD 0.135m Sink 19.54kg/mm	
Age Allowance	0.487%		RL	7.007m	VCGM 0.177m WS 24.46m²	
COMMENTS			LSM0	9.859m	Displacement/Length ratio 5.7394	
Builder's displacement. ex "DACAL", ex "ANEMOESSA"			Water Ballast	0	Trim Tab No	
			BLR Index	0.0000		
PROPELLER			CENTERBOARD			
Installation	Strut	PRD 0.420	N/A			
Type	Feathering 3 blades	PIPA 0.0033				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE				WINDWARD / LEEWARD	
Time on Distance	652.4				732.1	
Time on Time	0.9197				0.9220	
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	793.6	591.6	517.0	1034.5	740.5	625.2
Time on Time	0.8506	1.1410	1.3056	0.6525	0.9116	1.0796

BOAT Name MARIANNA Sail Nr GRE-3000 File GR3000 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Club Estimated VCG Flotation date 01/01/2013 SG 1.0240 FFM 1.430 FF 1.430 SFFP 0.380 FAM 1.066 FA 1.066 SAFP 9.990 LCF from stem on CL / on sheer 6.069 / 6.333 Maximum beam station from stem 7.011 RM Measured 119.4kg-m RM Default 117.4kg-m Limit of positive stability / Stab.Index 111.2° / 111.1 Freeboard at mast at 3.990 1.239	
RIG Forestay Tension Aft Spreaders 2 Inner Stay Fixed Runners/Checkstays 0 Carbon Mast No Jib Furler Yes Fiber Rigging No Main Furler Yes Non-Circular Rigging No Articulated Bowsprit No P 12.260 E 4.200 MDT1 0.116 MW IG 12.410 J 3.990 MDL1 0.170 GO ISP 12.800 SFJ 0.000 MDT2 BD BAS 1.440 SPL 3.990 MDL2 MWT FSD 0.035 TPS 4.615 TL -3.000 MCG			
MIZZEN RIG AND SAILS N/A		PROPELLER Installation Strut PRD 0.420 Type Feathering 3 blades PBW Twin Screw No PIPA 0.0033 ST1 0.048 ST3 0.170 ST5 0.300 ST2 0.170 ST4 0.098 EDL 1.962	
COMMENTS Builder's displacement. ex "DACAL", ex "ANEMOESSA"		MOVABLE BALLAST N/A	
		CENTERBOARD N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.04	0.49	0.91	1.96	3.00	24.52		18/04/2016		Dacron						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.06	0.68	1.33	2.72	4.19	5.77	12.18	145%	34.07		No		18/04/2016		Dacron	
1	0.02	0.64	1.32	2.75	4.25	5.81	11.60	146%	32.66		No		30/05/2009		Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	13.20	13.20	13.20	7.25	7.25	79.75		30/05/2009		Unknown						
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	13.20	11.20	12.20	6.21	7.05	64.85	asym		19/03/2016	KAFETZIDA	Polyester					


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Measurements
Datasheet

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2020

ORC Club Certificate Appendix

BOAT			
Name	MARIANNA	Certificate Number	00053
Sail Nr	GRE-3000	Issued On	26/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1220.0	998.6	877.8	797.7	753.0	737.6	742.0
52°	777.7	650.7	577.4	534.5	514.2	505.4	503.5
60°	725.6	613.5	548.5	515.7	499.2	490.1	485.9
75°	688.4	584.5	528.1	501.8	486.1	474.5	460.3
90°	696.3	580.1	515.5	487.5	471.0	462.3	444.5
110°	685.6	563.2	505.0	478.5	458.0	439.7	409.8
120°	704.4	576.3	511.0	481.9	460.0	438.2	402.4
135°	777.6	630.4	540.4	498.3	474.7	453.1	410.3
150°	930.9	731.4	612.8	538.7	499.3	477.0	436.6
Run VMG	1075.0	844.5	707.6	616.1	557.2	513.5	468.1
Selected Courses							
Windward / Leeward	1147.5	921.6	792.7	706.9	655.1	625.6	605.1
Circular Random	946.0	756.5	652.6	591.0	552.8	528.7	502.0
Coastal / Long Distance	1140.2	862.3	707.7	610.9	559.5	525.4	475.6
Non Spinnaker	1010.0	802.2	687.0	617.8	574.6	546.9	516.0

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	45.8°	43.5°	42.8°	42.0°	41.3°	40.9°	41.6°
Beat VMG	2.95	3.61	4.10	4.51	4.78	4.88	4.85
52°	4.63	5.53	6.23	6.73	7.00	7.12	7.15
60°	4.96	5.87	6.56	6.98	7.21	7.35	7.41
75°	5.23	6.16	6.82	7.17	7.41	7.59	7.82
90°	5.17	6.21	6.98	7.38	7.64	7.79	8.10
110°	5.25	6.39	7.13	7.52	7.86	8.19	8.79
120°	5.11	6.25	7.05	7.47	7.83	8.22	8.95
135°	4.63	5.71	6.66	7.22	7.58	7.95	8.77
150°	3.87	4.92	5.87	6.68	7.21	7.55	8.24
Run VMG	3.35	4.26	5.09	5.84	6.46	7.01	7.69
Gybe Angles	146.0°	150.0°	150.0°	154.5°	168.0°	180.0°	180.0°