



2020
ORC Club
Certificate

Rating Office
Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate
 Number **00253**
 Issued On **27/03/2020**
 ORC Ref **03420000F97**
 VPP Ver. **2020 1.01**
 Valid until **28/02/2021**

Crew Weight

Default	490kg
Maximum	465kg
Minimum*	349kg

**when applied by the NoR and SI*
 Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 743.6	0.8069
Non Spin OSN 719.0	0.8345

Sails Limitations

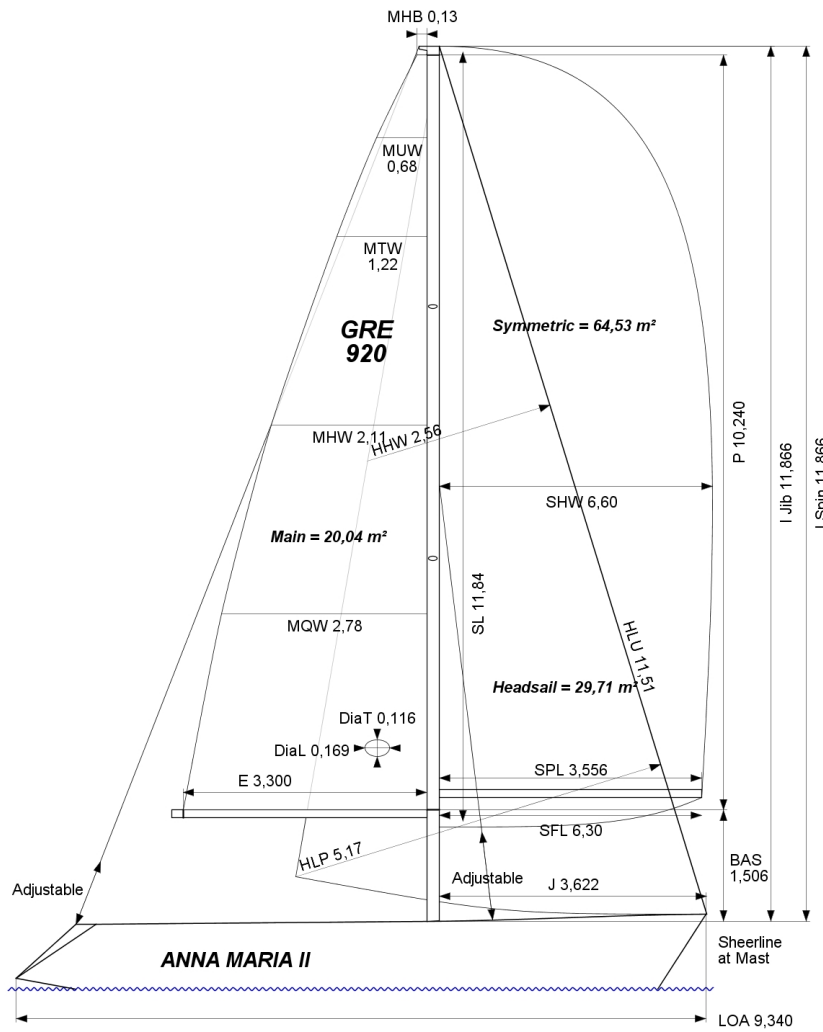
Headsails **5** Spinnakers **4**

Spinnaker configuration
 Symmetric: **Yes** **64.53**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **Yes**

Class Division Length
CDL = 7.239

Stability (Estimated)
 Limit Positive Stab.: **109.0°**
 Stability Index: **105.9**

Owner



BOAT Name ANNA MARIA II Sail Nr GRE-920		GPH 709.7	HULL Data File GR920 LOA 9.340m Offset File GR0008.BOF MB 3.408m Displacement 4,074kg Draft 1.594m					
CLASS Class ATLANTIC 31 Designer JACOPIN & JACOPIN Builder ATLANTIC Series 01/1990 Age Date 05/1993 Age Allowance 0.487%			IMS Division Cruiser/Racer Dynamic All. 0.414% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No					
COMMENTS			IMSL 8.004m VCGD 0.139m Sink 14.74kg/mm RL 6.472m VCGM 0.087m WS 19.52m² LSM0 7.878m Displacement/Length ratio 8.3325 Water Ballast 0 Trim Tab No BLR Index 0.0000					
PROPELLER Installation Shaft exposed PRD 0.360 Type Feathering 2 blades PBW 0.135 PIPA 0.0044			CENTERBOARD N/A					
SCORING OPTIONS								
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD				
Time on Distance	688.2			767.1				
Time on Time	0.8719			0.8799				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	824.8	626.0	551.5	1067.0	775.0	659.2		
Time on Time	0.8184	1.0782	1.2239	0.6326	0.8710	1.0240		

BOAT	
Name ANNA MARIA II	Sail Nr GRE-920
File GR920	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 12/04/2014		SG	
FFM 1.010	FF 1.010	SFFP 0.520	
FAM 0.875	FA 0.875	SAFP 8.260	
LCF from stem on CL / on sheer		4.954 / 5.220	
Maximum beam station from stem		5.622	
RM Measured		80.1kg-m	
RM Default		77.8kg-m	
Limit of positive stability / Stab.Index		109.0° / 105.9	
Freeboard at mast at 0.000		0.922	



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet


RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay Adjustable	Runners/Checkstays 0		
Carbon Mast No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Non-Circular Rigging No			
Articulated Bowsprit No			
P 10.240	E 3.300	MDT1 0.116	MW 0.169
IG 11.866	J 3.622	MDL1 0.169	GO 0.189
ISP 11.866	SFJ -0.010	MDT2 0.116	BD 0.100
BAS 1.506	SPL 3.556	MDL2 0.169	MWT
FSD 0.031	TPS	TL 0.000	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.360		
Type Feathering 2 blades	PBW 0.135		
Twin Screw No	PIPA 0.0044		
PSA 16.850	PHL 0.105	ST3 0.080	ESL 0.842
PSD 0.025	ST1 0.028	ST4 0.056	
PHD 0.069	ST2 0.080	ST5 0.175	

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COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.13	0.68	1.22	2.11	2.78	20.04		18/11/2016	QUANTUM	Pentex						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.07	0.66	1.29	2.56	3.86	5.17	11.51	143%	29.71		No		05/03/2016		Technor	
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S2018	11.84	11.84	11.84	6.60	6.30	64.53		07/02/2018		Unknown						
2	11.80	11.80	11.80	6.58	6.19	63.94		24/06/2015		Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT	
Name	ANNA MARIA II
Sail Nr	GRE-920
Certificate Number	00253
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1240.2	1034.0	912.1	830.0	790.0	774.7	772.6
52°	799.1	674.0	602.4	567.4	550.1	542.4	538.9
60°	750.6	636.1	578.4	552.2	536.6	527.0	521.2
75°	718.6	609.4	562.2	539.5	523.4	509.9	492.2
90°	727.3	613.6	554.0	527.9	513.4	503.5	475.9
110°	727.6	598.3	544.8	517.7	494.5	473.8	449.6
120°	748.3	613.0	550.6	521.4	497.2	474.0	436.2
135°	820.9	668.7	577.7	538.4	513.4	489.6	446.7
150°	963.8	762.8	645.6	572.4	538.1	514.9	471.8
Run VMG	1112.9	880.7	744.2	651.6	587.4	547.8	502.3
Selected Courses							
Windward / Leeward	1176.5	957.4	828.2	740.8	688.7	661.3	637.4
Circular Random	986.2	793.2	688.1	626.2	587.9	563.4	534.2
Coastal / Long Distance	1170.2	897.2	742.9	646.4	596.7	562.7	509.2
Non Spinnaker	1046.8	836.1	720.2	651.1	608.0	580.2	547.6

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	44.3°	43.9°	42.8°	41.6°	40.7°	40.1°	40.5°
Beat VMG	2.90	3.48	3.95	4.34	4.56	4.65	4.66
52°	4.51	5.34	5.98	6.34	6.54	6.64	6.68
60°	4.80	5.66	6.22	6.52	6.71	6.83	6.91
75°	5.01	5.91	6.40	6.67	6.88	7.06	7.31
90°	4.95	5.87	6.50	6.82	7.01	7.15	7.57
110°	4.95	6.02	6.61	6.95	7.28	7.60	8.01
120°	4.81	5.87	6.54	6.90	7.24	7.59	8.25
135°	4.39	5.38	6.23	6.69	7.01	7.35	8.06
150°	3.74	4.72	5.58	6.29	6.69	6.99	7.63
Run VMG	3.23	4.09	4.84	5.52	6.13	6.57	7.17
Gybe Angles	147.0°	151.0°	152.0°	157.5°	180.0°	180.0°	180.0°