



2020
ORC Club
Certificate

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



Certificate
Number **01191**
Issued On **27/03/2020**
ORC Ref **03420000F9L**
VPP Ver. **2020 1.01**
Valid until **28/02/2021**

Crew Weight

Default	494kg
Maximum	494kg
Minimum*	371kg

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

Special Scoring

ToD	ToT
Non Spin GPH 788.3	0.7611
Non Spin OSN 760.1	0.7894

Sails Limitations

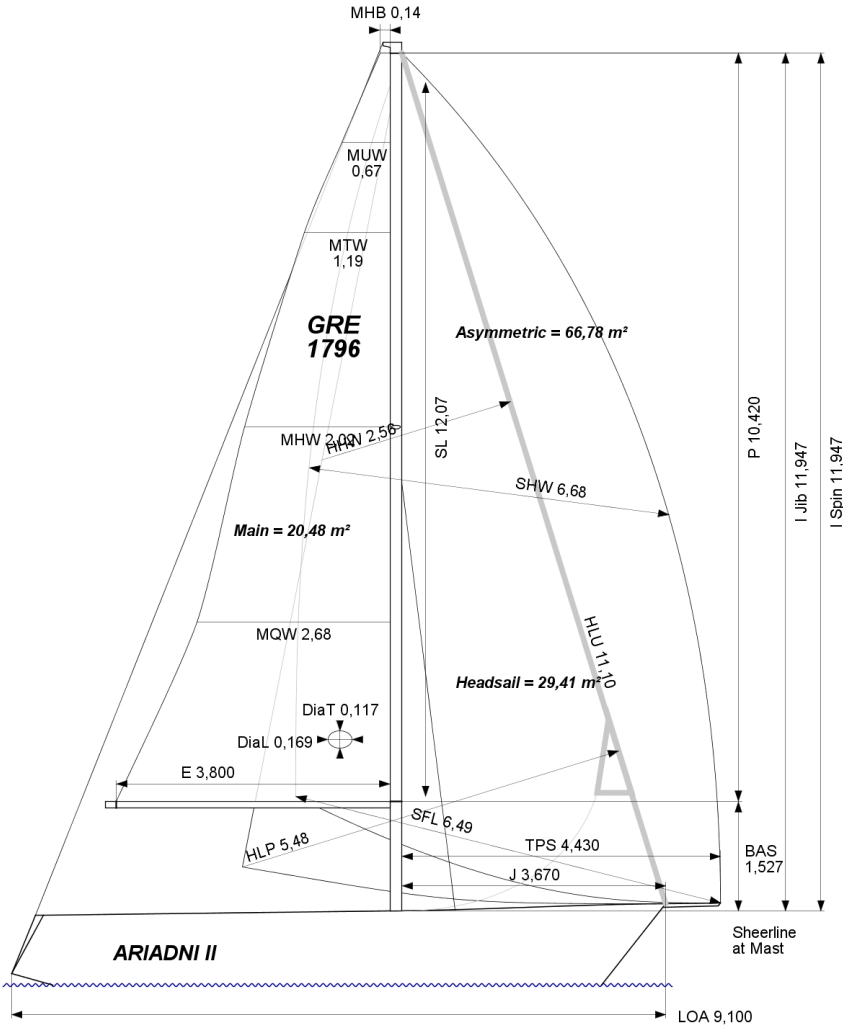
Headsails **1** Spinnakers **4**
Woven Polyester
Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 66.78**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length
CDL = **6.702**

Stability (Estimated)
Limit Positive Stab.: **111.4°**
Stability Index: **111.7**

Owner



BOAT Name ARIADNI II Sail Nr GRE-1796	GPH 750.1	HULL Data File GR1796 LOA 9.100m Offset File GR0066.off MB 3.240m Displacement 4,500kg Draft 1.668m
CLASS Class DISCOVERY 3000 Designer ED DUBOIS Builder DROMOR Series 01/1987 Age Date 01/1987 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.562% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS Builder's displacement.		IMSL 7.815m VCGD -0.052m Sink 14.64kg/mm RL 5.587m VCGM 0.122m WS 20.17m² LSM0 7.922m Displacement/Length ratio 9.0512
PROPELLER Installation Shaft exposed PRD 0.350 Type Solid 3 blades PIPA 0.0153		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD NA

SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	728.7			821.8		
Time on Time	0.8234			0.8214		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	873.8	661.1	582.3	1135.6	832.9	707.7
Time on Time	0.7725	1.0211	1.1591	0.5944	0.8104	0.9538

BOAT	
Name ARIADNI II	Sail Nr GRE-1796
File GR1796	Data in meters/kilograms

RIG	
Forestay Tension Fixed	Spreaders 1
Inner Stay Fixed	Runners/Checkstays 0
Carbon Mast No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 10.420	E 3.800 MDT1 0.117 MW
IG 11.947	J 3.670 MDL1 0.169 GO
ISP 11.947	SFJ 0.000 MDT2
BAS 1.527	SPL MDL2
FSD -3.000	TPS 4.430 TL -3.000 MCG

INCLINING TEST AND FREEBOARDS	
Inclining Test Club Estimated VCG	
Flotation date 20/02/2017	SG 1.0250
FFM 1.123	FF 1.123 SFFP 0.580
FAM 0.973	FA 0.973 SAFF 8.658
LCF from stem on CL / on sheer	5.048 / 5.301
Maximum beam station from stem	5.400
RM Measured	78.0kg-m
RM Default	75.7kg-m
Limit of positive stability / Stab.Index	111.4° / 111.7
Freeboard at mast at 3.670	1.029



ORC
Offshore Racing Congress
World leader in rating technology


2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Shaft exposed	PRD 0.350
Type Solid 3 blades	PBW
Twin Screw No	PIPA 0.0153
PSA	PHL ST3 ESL
PSD	ST1 ST4
PHD	ST2 ST5

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COMMENTS	
Builder's displacement.	

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	0.14	0.67	1.19	2.02	2.68	20.49		20/02/2017	ELVSTROM	Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	OvrI/p	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.08	0.63	1.24	2.56	3.99	5.48	11.10	149%	29.41		No		19/12/2019	QUANTUM	Dacron	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
	13.00	11.13	12.07	6.68	6.49	66.78	asym		19/12/2019	QUANTUM	Nylon					

2020

ORC Club Certificate Appendix

BOAT			
Name	ARIADNI II	Certificate Number	01191
Sail Nr	GRE-1796	Issued On	27/03/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1354.6	1114.1	984.0	893.3	837.4	817.4	818.9
52°	865.0	724.2	642.8	595.6	572.7	562.7	559.7
60°	808.4	681.0	609.6	575.3	556.9	546.4	540.9
75°	771.0	650.3	588.0	560.2	542.9	529.6	512.7
90°	764.9	630.8	567.3	540.7	526.6	519.2	496.4
110°	750.2	617.6	560.3	532.5	509.5	488.9	465.2
120°	776.0	635.7	567.7	537.4	513.2	490.1	453.8
135°	855.8	694.4	598.3	555.1	529.8	506.9	466.2
150°	999.3	796.4	679.9	611.1	574.1	550.0	513.6
Run VMG	1153.9	919.6	785.1	705.7	657.1	598.5	543.1
Selected Courses							
Windward / Leeward	1254.3	1016.9	884.6	799.5	747.3	708.0	681.0
Circular Random	1045.2	839.1	727.1	661.2	620.6	594.8	566.1
Coastal / Long Distance	1244.3	950.7	788.6	686.5	630.7	591.0	535.5
Non Spinnaker	1119.2	889.9	763.0	686.7	639.1	608.9	576.3

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	45.8°	43.5°	43.1°	42.8°	41.6°	40.9°	41.3°
Beat VMG	2.66	3.23	3.66	4.03	4.30	4.40	4.40
52°	4.16	4.97	5.60	6.04	6.29	6.40	6.43
60°	4.45	5.29	5.91	6.26	6.46	6.59	6.66
75°	4.67	5.54	6.12	6.43	6.63	6.80	7.02
90°	4.71	5.71	6.35	6.66	6.84	6.93	7.25
110°	4.80	5.83	6.42	6.76	7.07	7.36	7.74
120°	4.64	5.66	6.34	6.70	7.01	7.35	7.93
135°	4.21	5.18	6.02	6.48	6.80	7.10	7.72
150°	3.60	4.52	5.29	5.89	6.27	6.54	7.01
Run VMG	3.12	3.91	4.59	5.10	5.48	6.01	6.63
Gybe Angles	146.0°	146.5°	145.5°	147.0°	174.0°	176.0°	178.0°