



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

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



Certificate
Number **00752**
Issued On **27/05/2020**
ORC Ref **03420000J09**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	863kg
Maximum	864kg
Minimum*	648kg

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

Special Scoring

ToD	ToT
Non Spin GPH 639.1	0.9388
Non Spin OSN 618.1	0.9707

Sails Limitations

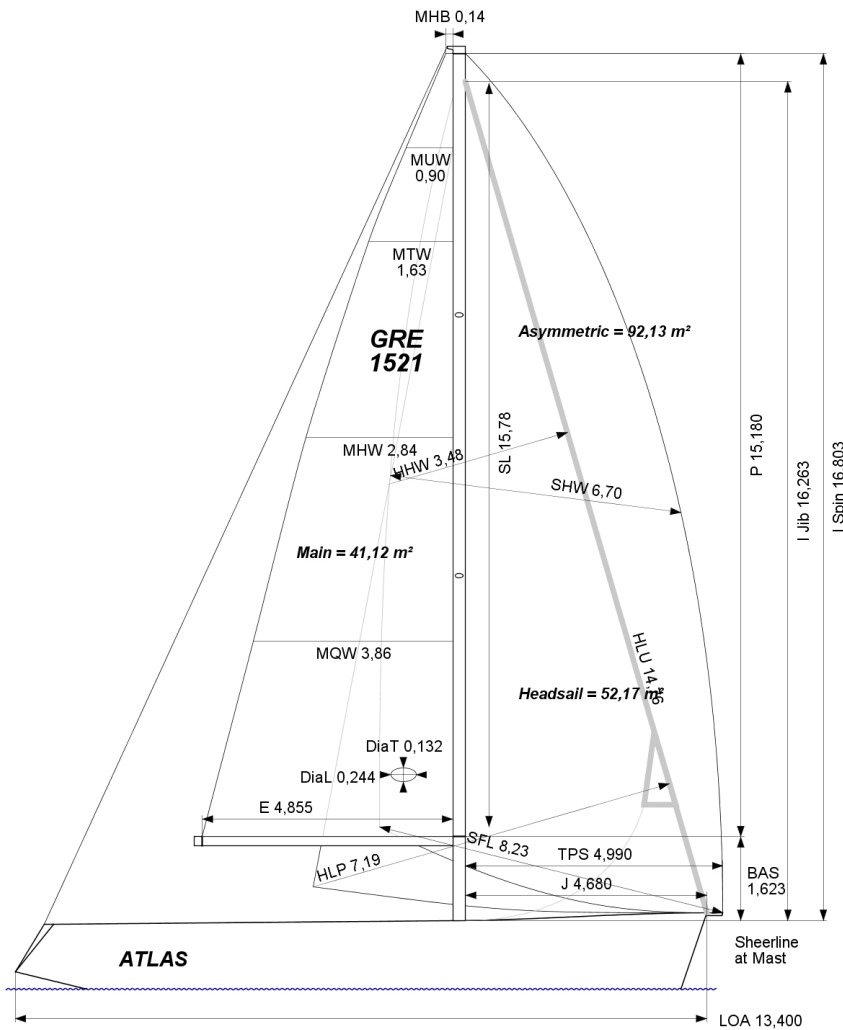
Headsails **1** Spinnakers **4**
Woven Polyester
Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 93.06**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length
CDL = 10.624

Stability (Estimated)
Limit Positive Stab.: **113.8°**
Stability Index: **115.3**

Owner



BOAT Name ATLAS Sail Nr GRE-1521		GPH 611.4	HULL Data File GR1521 LOA 13.400m Offset File duf44+.off MB 4.232m Displacement 8,500kg Draft 2.250m					
CLASS Class FEELING 44 (DK) Designer MORTAIN/MAVRIKIOS Builder KIRIE Series 01/2002 Age Date 07/2002 Age Allowance 0.487%			IMS Division Cruiser/Racer Dynamic All. 0.344% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No			IMSL 11.822m VCGD 0.138m Sink 27.15kg/mm RL 9.425m VCGM 0.127m WS 34.62m² LSM0 11.722m Displacement/Length ratio 5.2773		
COMMENTS Builder's displacement.			Water Ballast 0 Trim Tab No BLR Index 0.0000			CENTERBOARD NA		
PROPELLER Installation Shaft non exposed PRD 0.380 Type Solid 3 blades PIPA 0.0087								
SCORING OPTIONS								
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD				
Time on Distance	591.9			669.8				
Time on Time	1.0137			1.0078				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	727.8	534.7	463.7	954.3	675.5	568.9		
Time on Time	0.9274	1.2624	1.4558	0.7073	0.9992	1.1864		

BOAT	
Name ATLAS	Sail Nr GRE-1521
File GR1521	Data in meters/kilograms

RIG	
Forestay Tension Fixed	Spreaders 2
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 15.180	E 4.855 MDT1 0.132 MW
IG 16.263	J 4.680 MDL1 0.244 GO
ISP 16.803	SFJ 0.000 MDT2 BD
BAS 1.623	SPL MDL2 MWT
FSD -3.000	TPS 4.990 TL -3.000 MCG

INCLINING TEST AND FREEBOARDS		
Inclining Test Club Estimated VCG		
Flotation date 01/01/2013	SG 1.0251	
FFM 1.474	FF 1.474	SFFP 0.200
FAM 1.258	FA 1.258	SAFP 12.650
LCF from stem on CL / on sheer		7.171 / 7.453
Maximum beam station from stem		8.799
RM Measured		249.0kg-m
RM Default		241.8kg-m
Limit of positive stability / Stab.Index		113.8° / 115.3
Freeboard at mast at 4.680		1.331



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2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Shaft non exposed	PRD 0.380	
Type Solid 3 blades	PBW	
Twin Screw No	PIPA 0.0087	
PSA	PHD ESL	
PSD	PHL	

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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	0.90	1.63	2.84	3.86	41.12		07/08/2018	KAKITSIS	Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.83	1.69	3.48	5.34	7.19	14.76	154%	52.17		No		07/08/2018	DL Sails	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				
1	16.62	14.94	15.78	6.70	8.23	92.13	asy82		07/08/2018	KAKITSIS	Nylon					

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ORC Club Certificate Appendix

BOAT	
Name ATLAS	Certificate Number 00752
Sail Nr GRE-1521	Issued On 27/05/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1086.9	880.6	763.4	687.8	651.7	638.9	635.2
52°	694.7	574.5	504.9	468.5	452.7	446.9	443.7
60°	647.7	541.5	482.5	454.7	440.6	433.4	428.8
75°	613.5	515.8	467.1	444.2	428.7	416.3	403.4
90°	620.6	516.1	460.0	434.6	417.9	407.3	384.7
110°	638.0	520.5	461.0	433.5	411.9	391.0	358.6
120°	668.5	542.8	472.4	440.4	418.2	396.2	355.8
135°	757.7	603.4	513.8	462.3	435.9	414.6	373.7
150°	900.1	701.9	590.4	517.6	474.8	449.9	416.3
Run VMG	1039.3	810.4	681.8	597.6	548.3	511.5	448.7
Selected Courses							
Windward / Leeward	1063.1	845.5	722.6	642.7	600.0	575.2	541.9
Circular Random	865.8	689.0	591.7	533.9	497.9	474.5	445.5
Coastal / Long Distance	1060.7	791.5	643.7	551.3	505.2	473.4	423.1
Non Spinnaker	917.6	725.2	617.8	553.0	512.0	485.4	454.2

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°	42.8°	42.0°	41.3°	39.8°	39.8°	39.9°
Beat VMG	3.31	4.09	4.72	5.23	5.52	5.63	5.67
52°	5.18	6.27	7.13	7.68	7.95	8.06	8.11
60°	5.56	6.65	7.46	7.92	8.17	8.31	8.39
75°	5.87	6.98	7.71	8.10	8.40	8.65	8.92
90°	5.80	6.98	7.83	8.28	8.61	8.84	9.36
110°	5.64	6.92	7.81	8.30	8.74	9.21	10.04
120°	5.39	6.63	7.62	8.17	8.61	9.09	10.12
135°	4.75	5.97	7.01	7.79	8.26	8.68	9.63
150°	4.00	5.13	6.10	6.96	7.58	8.00	8.65
Run VMG	3.46	4.44	5.28	6.02	6.57	7.04	8.02
Gybe Angles	144.5°	147.0°	147.0°	147.3°	148.8°	170.5°	175.0°