



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 **01364**
Issued On **12/03/2020**
ORC Ref **03420000ERT**
VPP Ver. **2020 1.01**
Valid until **28/02/2021**

Crew Weight

Default 604kg
Maximum **360kg**
Minimum* **270kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	775.8	0.7734
Non Spin OSN	750.3	0.7997

Sails Limitations

Headsails **1** Spinnakers **0**
Woven Polyester

Spinnaker configuration

Symmetric: **No**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **No**

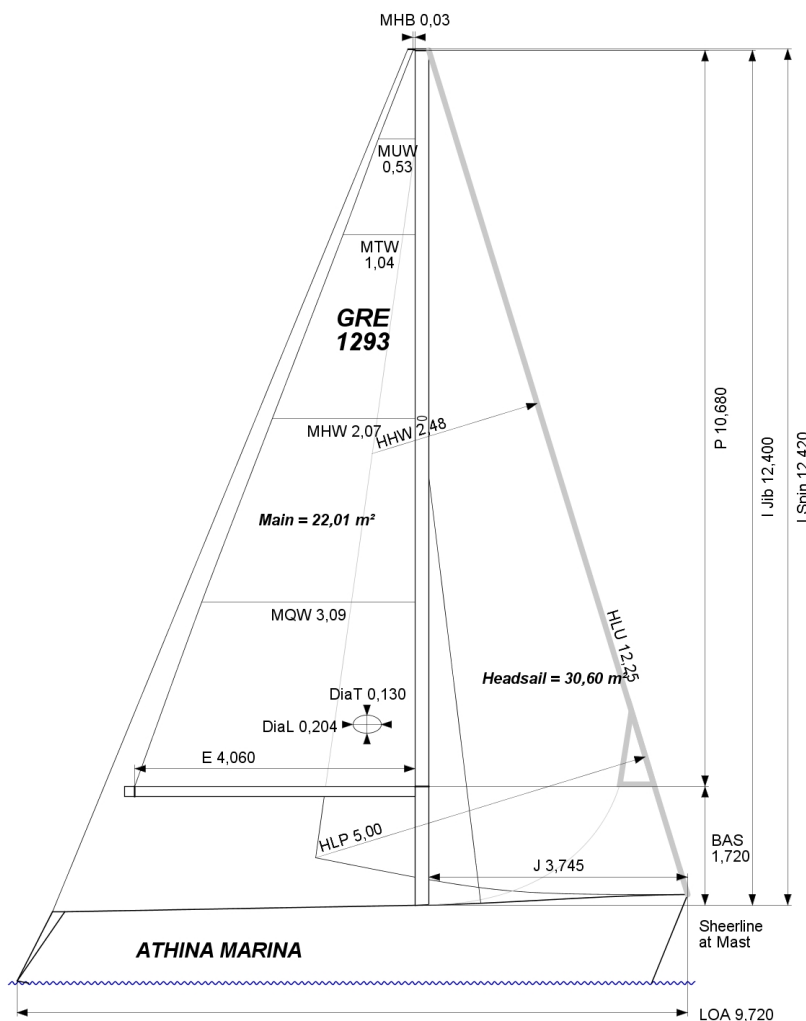
Class Division Length

CDL = 7.181

Stability (Estimated)

Limit Positive Stab.: **106.7°**
Stability Index: **104.6**

Owner



BOAT		GPH	HULL			
Name	ATHINA MARINA	775.8	Data File	GR1293 LOA 9.720m		
Sail Nr	GRE-1293		Offset File	OCEA321.OFF MB 3.466m		
CLASS			Displacement	4,400kg Draft 1.292m		
Class	OCEANIS 321		IMS Division	Cruiser/Racer Dynamic All. 0.403%		
Designer	BENETEAU DESIGN		Plan Review	Construction Solid		
Builder	BENETEAU		Fiber Rigging	No Aramid Core No		
Series	01/1995		Crew Arm Ex	Carbon Rudder No		
Age Date	01/1995			Light Stanchions No		
Age Allowance	0.487%		IMSL	9.082m VCGD 0.145m Sink 17.44kg/mm		
COMMENTS			RL	5.279m VCGM 0.218m WS 22.38m²		
Builders displacement. ex "SEA ROSE"			LSM0	9.127m Displacement/Length ratio 5.7872		
PROPELLER			Water Ballast	0 Trim Tab No		
Installation	Shaft non exposed	PRD	BLR Index	0.0000		
Type	Solid 3 blades	PBW	CENTERBOARD			
		PIPA	N/A			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	750.3			851.0		
Time on Time	0.7997			0.7932		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	928.3	676.2	591.8	1226.4	857.8	730.9
Time on Time	0.7271	0.9982	1.1405	0.5504	0.7869	0.9235

BOAT	
Name ATHINA MARINA	Sail Nr GRE-1293
File GR1293	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 01/01/2013		SG 1.0268	
FFM 1.274	FF 1.274	SFFP 0.360	
FAM 1.038	FA 1.038	SAFP 9.030	
LCF from stem on CL / on sheer		5.631 / 5.889	
Maximum beam station from stem		6.543	
RM Measured		95.1kg-m	
RM Default		92.3kg-m	
Limit of positive stability / Stab.Index		106.7° / 104.6	
Freeboard at mast at 3.745		1.133	

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 10.680	E 4.060	MDT1 0.130	MW
IG 12.400	J 3.745	MDL1 0.204	GO
ISP 12.420	SFJ 0.000	MDT2	BD
BAS 1.720	SPL	MDL2	MWT
FSD -3.000	TPS	TL -3.000	MCG




2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft non exposed	PRD 0.410		
Type Solid 3 blades	PBW 0.139		
Twin Screw No	PIPA 0.0101		
PSA	PHD 0.039	ESL	
PSD 0.025	PHL 0.029		

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COMMENTS	
Builders displacement. ex "SEA ROSE"	

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	0.03	0.53	1.04	2.07	3.09	22.01		15/05/2007		Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.00	0.64	1.23	2.48	3.74	5.00	12.25	134%	30.60		No		15/05/2007		Unknow	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT			
Name	ATHINA MARINA	Certificate Number	01364
Sail Nr	GRE-1293	Issued On	12/03/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1401.7	1139.6	1002.7	919.1	884.9	878.6	914.2
52°	870.9	719.0	638.5	588.4	567.7	563.2	574.7
60°	791.8	666.0	594.5	556.1	538.2	532.6	535.4
75°	740.1	626.5	563.1	533.2	516.6	505.9	499.2
90°	744.6	624.8	558.2	526.9	508.9	493.2	470.9
110°	817.7	665.5	578.8	534.6	511.0	492.4	455.7
120°	875.1	704.6	607.1	548.2	518.9	499.1	461.2
135°	1004.7	786.1	667.8	590.2	543.1	517.4	480.7
150°	1182.0	903.0	748.9	652.6	584.5	541.9	499.4
Run VMG	1346.8	1017.6	831.2	715.0	634.7	576.0	516.2
Selected Courses							
Windward / Leeward	1374.2	1078.6	916.9	817.1	759.8	727.3	715.2
Circular Random	1103.4	875.4	750.0	676.1	631.7	605.4	581.8
Coastal / Long Distance	1371.5	1007.8	816.4	699.2	636.9	594.9	536.3
Non Spinnaker	1103.4	875.4	750.0	676.1	631.7	605.4	581.8

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	48.8°	47.3°	46.1°	45.8°	45.8°	46.1°	48.0°
Beat VMG	2.57	3.16	3.59	3.92	4.07	4.10	3.94
52°	4.13	5.01	5.64	6.12	6.34	6.39	6.26
60°	4.55	5.41	6.06	6.47	6.69	6.76	6.72
75°	4.86	5.75	6.39	6.75	6.97	7.12	7.21
90°	4.83	5.76	6.45	6.83	7.07	7.30	7.64
110°	4.40	5.41	6.22	6.73	7.05	7.31	7.90
120°	4.11	5.11	5.93	6.57	6.94	7.21	7.81
135°	3.58	4.58	5.39	6.10	6.63	6.96	7.49
150°	3.05	3.99	4.81	5.52	6.16	6.64	7.21
Run VMG	2.67	3.54	4.33	5.03	5.67	6.25	6.97
Gybe Angles	168.0°	168.0°	169.0°	170.0°	171.0°	172.0°	176.0°