



2020
ORC Club
Certificate

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



Certificate
Number **00629**
Issued On **10/06/2020**
ORC Ref **03420000KCI**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight
Default 720kg
Maximum **600kg**
Minimum* **450kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **698.8 0.8586**
Non Spin OSN **677.8 0.8853**

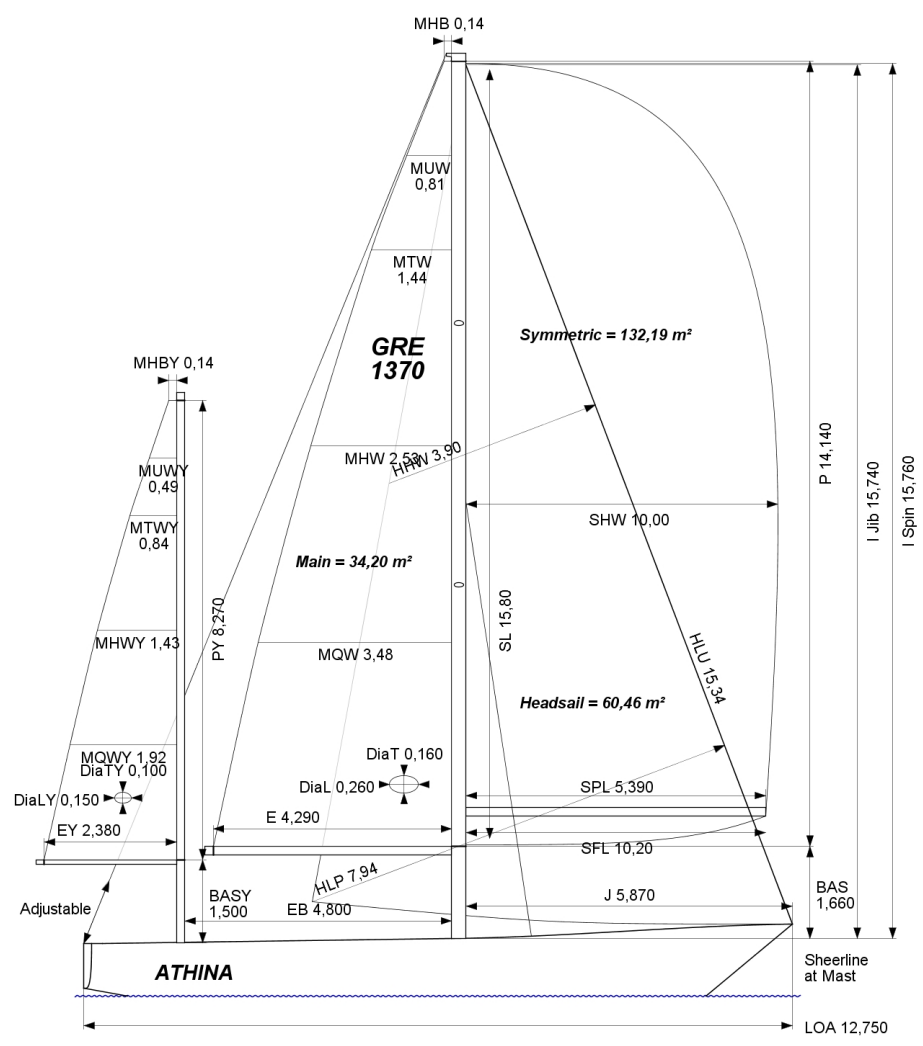
Sails Limitations
Headsails **5** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes 132.19**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **8.549**

Stability (Estimated)
Limit Positive Stab.: **113.3°**
Stability Index: **122.6**

Owner



BOAT Name ATHINA Sail Nr GRE-1370		GPH 668.9	HULL Data File GR1370 LOA 12.750m Offset File US19334.BOF MB 3.822m Displacement 14,088kg Draft 1.961m			
CLASS Class CAPE NORTH 43 Designer BREWER Builder CAPE YACHTS Series 09/1977 Age Date 09/1977 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.625% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No				
COMMENTS Weighted by measurer.		IMS 10.471m VCGD 0.058m Sink 26.50kg/mm RL 6.627m VCGM -0.023m WS 37.73m² LSM0 10.318m Displacement/Length ratio 12.8252				
PROPELLER Installation Shaft exposed PRD 0.505 Type Feathering 3 blades PIPA 0.0034		Water Ballast 0 Trim Tab No BLR Index 0.0000				
SCORING OPTIONS		CENTERBOARD N/A				
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	649.7			731.2		
Time on Time	0.9236			0.9231		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	778.4	591.0	516.5	1008.5	743.0	624.4
Time on Time	0.8672	1.1421	1.3068	0.6693	0.9085	1.0811

BOAT	
Name ATHINA	Sail Nr GRE-1370
File GR1370	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Club Estimated VCG		
Flotation date 17/03/2018	SG 1.0254	
FFM 1.270	FF 1.270	SFFP 1.006
FAM 0.944	FA 0.944	SAFP 12.421
LCF from stem on CL / on sheer		7.065 / 7.314
Maximum beam station from stem		7.425
RM Measured		257.8kg-m
RM Default		250.3kg-m
Limit of positive stability / Stab.Index		113.3° / 122.6
Freeboard at mast at 5.870		1.037



2020
Measurements
Datasheet

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay Fixed	Runners/Checkstays 0		
Carbon Mast No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Non-Circular Rigging No			
Articulated Bowsprit No			
P 14.140	E 4.290	MDT1 0.160	MW
IG 15.740	J 5.870	MDL1 0.260	GO
ISP 15.760	SFJ	MDT2	BD
BAS 1.660	SPL 5.390	MDL2	MWT
FSD 0.028	TPS	TL 0.000	MCG

MIZZEN RIG AND SAILS					
PY 8.270	EY 2.380	MDL1Y 0.150	EB 4.800		
IY	MDT1Y 0.100	MDL2Y	BASY 1.500		
TLY 0.000	MDT2Y	BDY			
YSD 0.00	MHBY 0.14	MHWY 1.43			
YSMG 0.00	MUWY 0.49	MQWY 1.92			
YSF 0.00	MTWY 0.84	Area 11.38			

PROPELLER			
Installation Shaft exposed	PRD 0.505		
Type Feathering 3 blades	PBW		
Twin Screw No	PIPA 0.0034		
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

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COMMENTS	
Weighted by measurer.	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	0.14	0.81	1.44	2.53	3.48	34.21		28/02/2016	KAKITSIS	Dacron	TAFETA					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.04	0.97	1.93	3.90	5.94	7.94	15.34	135%	60.46		No		28/02/2016	KAKITSIS	Dacron	TAFETA
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	15.85	15.75	15.80	10.00	10.20	132.20		21/03/2017	KAKITSIS	Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY					
Measurer GRE-42					
Date 17/03/2018					
Comment					
Internal Ballast total = 0.0					
Id	Item	Weight	Distance	VCG Description	
Id	Item	Weight	Description		

MEASUREMENT INVENTORY				
Id	Item	Weight	Distance	VCG Description

2020

ORC Club Certificate Appendix

BOAT	
Name ATHINA	Certificate Number 00629
Sail Nr GRE-1370	Issued On 10/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1197.0	997.1	892.2	820.3	777.0	750.9	730.8
52°	765.4	650.4	580.9	533.6	510.3	499.0	489.7
60°	713.2	612.7	546.8	510.2	492.2	482.1	473.1
75°	674.5	582.0	522.2	494.1	478.7	468.1	453.7
90°	675.9	580.5	516.3	485.1	473.6	462.0	443.1
110°	679.1	563.9	499.7	472.9	456.0	441.9	426.8
120°	692.0	573.7	504.3	475.0	456.9	441.2	414.1
135°	752.0	619.3	533.0	489.7	468.0	451.3	419.7
150°	887.7	705.9	601.2	529.2	489.8	469.4	438.5
Run VMG	1025.0	815.2	693.5	605.7	547.4	503.4	462.0
Selected Courses							
Windward / Leeward	1111.0	906.1	792.8	713.0	662.2	627.2	596.4
Circular Random	929.3	748.2	649.0	589.7	552.4	528.1	499.9
Coastal / Long Distance	1102.4	848.5	706.9	612.6	561.4	524.9	473.5
Non Spinnaker	982.1	785.9	677.4	611.7	569.8	542.1	509.1

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°	43.9°	43.5°	44.3°	44.6°	43.9°	43.5°
Beat VMG	3.01	3.61	4.04	4.39	4.63	4.79	4.93
52°	4.70	5.54	6.20	6.75	7.06	7.21	7.35
60°	5.05	5.88	6.58	7.06	7.31	7.47	7.61
75°	5.34	6.19	6.89	7.29	7.52	7.69	7.94
90°	5.33	6.20	6.97	7.42	7.60	7.79	8.13
110°	5.30	6.38	7.20	7.61	7.89	8.15	8.44
120°	5.20	6.27	7.14	7.58	7.88	8.16	8.69
135°	4.79	5.81	6.75	7.35	7.69	7.98	8.58
150°	4.06	5.10	5.99	6.80	7.35	7.67	8.21
Run VMG	3.51	4.42	5.19	5.94	6.58	7.15	7.79
Gybe Angles	147.0°	151.0°	152.0°	154.0°	166.0°	180.0°	180.0°