



2020
ORC Club
Certificate

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



Certificate
Number **00384**
Issued On **10/06/2020**
ORC Ref **03420000KD6**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	604kg
Maximum	480kg
Minimum*	360kg

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

Special Scoring

ToD	ToT
Non Spin GPH	687.5 0.8727
Non Spin OSN	665.8 0.9012

Sails Limitations

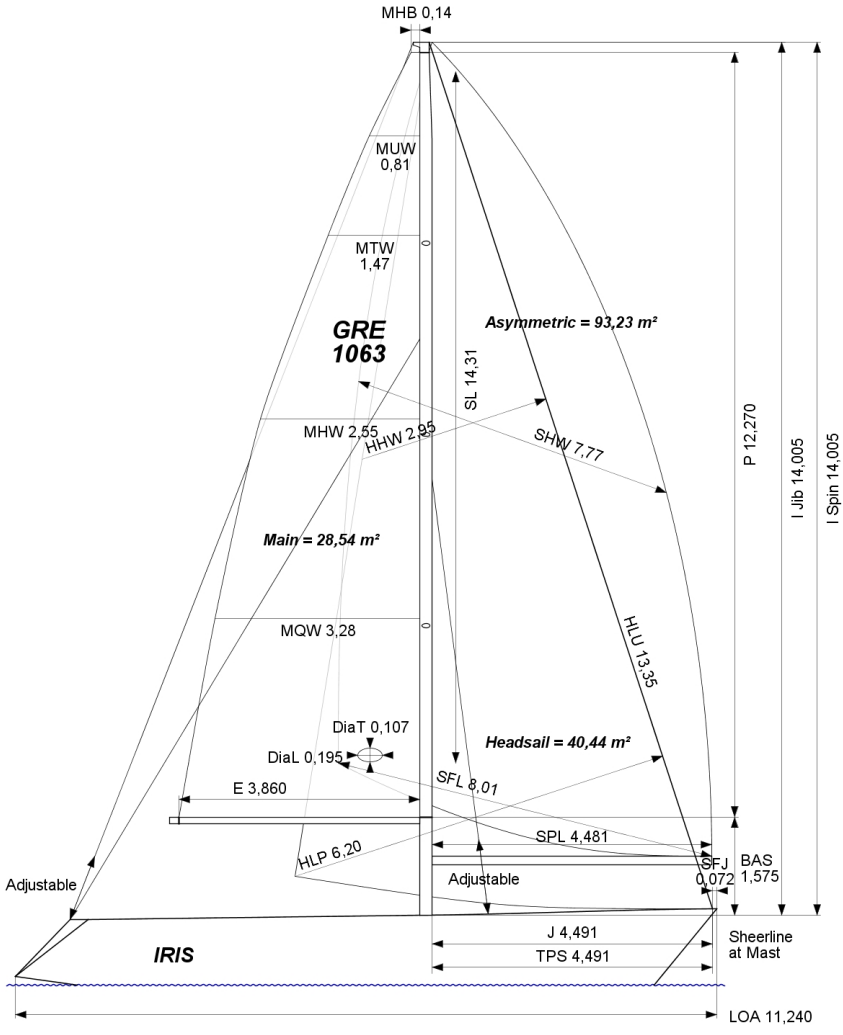
Headsails **5** Spinnakers **4**

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 93.23**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **8.538**

Stability (Measured)
Limit Positive Stab.: **113.4°**
Stability Index: **112.2**

Owner



BOAT Name IRIS Sail Nr GRE-1063		GPH 653.5	HULL Data File GR1063 LOA 11.240m Offset File G1086.BOF MB 3.810m Displacement 5,928kg Draft 1.910m			
CLASS Class SUNSHINE 38 Designer A.CASTRO Builder JEANNEAU Series 01/1982 Age Date 01/1989 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.283% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 9.281m VCGD -0.115m Sink 18.41kg/mm RL 7.802m VCGM 0.097m WS 26.02m² LSM0 9.126m Displacement/Length ratio 7.7995		
COMMENTS ex "ONEIRO".		Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Installation Shaft exposed PRD 0.410 Type Feathering 3 blades PBW 0.135 PIPA 0.0023		CENTERBOARD NA				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	634.0			706.9		
Time on Time	0.9463			0.9549		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	753.6	577.2	516.2	974.6	711.4	616.6
Time on Time	0.8957	1.1694	1.3077	0.6926	0.9488	1.0947

BOAT	
Name IRIS File GR1063	Sail Nr GRE-1063 Data in meters/kilograms
RIG	
Forestay Tension Aft	Spreaders 3
Inner Stay Adjustable	Runners/Checkstays 1
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 12.270	E 3.860 MDT1 0.107 MW 0.160
IG 14.005	J 4.491 MDL1 0.195 GO 0.200
ISP 14.005	SFJ 0.072 MDT2 0.100 BD 0.102
BAS 1.575	SPL 4.481 MDL2 0.150 MWT
FSD 0.036	TPS 4.491 TL 1.400 MCG

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 29/11/2009	SG 1.0280	
FFM 1.222	FF 1.218	SFFP 0.716
FAM 1.047	FA 1.053	SAFP 10.075
W1 71.4	PD1 264.0	WD 12.080
W2 71.4	PD2 264.0	GSA 41.9
W3 71.4	PD3 264.0	RSA 6082.1
W4 71.4	PD4 264.0	PLM 2106.0
LCF from stem on CL / on sheer		6.025 / 6.303
Maximum beam station from stem		6.550
RM Measured		119.6kg-m
RM Default		126.3kg-m
Limit of positive stability / Stab.Index		113.4° / 112.2
Freeboard at mast at 4.563		1.120



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.410		
Type Feathering 3 blades	PBW 0.135		
Twin Screw No	PIPA 0.0023		
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

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COMMENTS	
ex "ONEIRO".	

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	0.81	1.47	2.55	3.28	28.54		30/04/2020	YACHT	Polyester						
HEADSAILS (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.09	0.75	1.46	2.95	4.54	6.20	13.35	138%	40.44		No		30/04/2020	YACHT	Unknow	
4	0.06	0.75	1.48	2.95	4.44	5.75	11.91	128%	34.96		No		04/08/2011		Nylon	(FIGURES FROM
2	0.07	0.68	1.22	2.35	3.48	4.63	13.45	103%	31.62		No		06/05/2018	ZOUGANELI	Pentex	G2
3	0.08	0.52	1.00	1.96	2.96	3.79	13.87	84%	27.12		No		12/12/2009	ZOUGANELI	Pentex	G3
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				
2	14.57	14.05	14.31	7.77	8.01	93.23	asym		12/12/2009	ZOUGANELI	Nylon					

MEASUREMENT INVENTORY				
Measurer GRE-21				
Date 29/11/2009				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
4	Anchor	18.0	9.80	S-DANFORTH
4	Chain	10.0	9.80	S
4	Feels	9.0	5.70	S
Id	Item	Maker	Model	
1	Engine	YANMAR	3GM30	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
F	Tank	FUEL	INOX	80.0				5.0 S J+1.70
W1	Tank	WATER	PVC HARD	90.0	5.30			0.0 S
W2	Tank	WATER	PVC HARD	90.0	5.30			0.0 P
W3	Tank	WATER	PVC HARD	45.0	4.10			0.0 P
Id	Item	Weight	Distance	VCG	Description			
1	Battery	44.0	7.00	143Ah	C			
2	Battery	44.0	7.80	143Ah	P			
3	Battery	35.0	8.90	110Ah	P			
4	Battery	20.0	5.60	55Ah	P			

2020

ORC Club Certificate Appendix

BOAT	
Name IRIS	Certificate Number 00384
Sail Nr GRE-1063	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	1116.3	925.9	816.4	756.0	733.9	724.7	728.6
52°	727.9	614.3	550.1	524.7	513.9	509.4	507.6
60°	686.7	583.0	533.1	511.8	500.4	495.1	492.0
75°	657.1	560.8	520.9	500.7	487.0	476.6	466.1
90°	665.9	560.3	512.7	492.6	482.2	468.4	446.4
110°	663.3	548.2	504.2	480.4	460.8	444.6	427.2
120°	684.0	561.4	509.7	483.6	461.3	440.9	410.0
135°	757.6	615.2	534.1	499.4	476.2	454.0	413.4
150°	897.2	710.3	599.3	531.1	499.9	478.1	437.4
Run VMG	1036.0	820.2	691.7	605.6	549.3	511.5	468.2
Selected Courses							
Windward / Leeward	1076.1	873.0	754.0	680.8	641.6	618.1	598.4
Circular Random	903.2	727.8	633.6	579.3	546.4	525.8	502.4
Coastal / Long Distance	1072.1	819.2	678.6	595.9	555.7	525.3	478.2
Non Spinnaker	964.4	771.1	665.8	603.9	566.1	542.1	514.6

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	43.1°	41.6°	41.3°	40.5°	39.8°	39.8°	40.5°
Beat VMG	3.23	3.89	4.41	4.76	4.91	4.97	4.94
52°	4.95	5.86	6.54	6.86	7.01	7.07	7.09
60°	5.24	6.18	6.75	7.03	7.19	7.27	7.32
75°	5.48	6.42	6.91	7.19	7.39	7.55	7.72
90°	5.41	6.43	7.02	7.31	7.47	7.68	8.06
110°	5.43	6.57	7.14	7.49	7.81	8.10	8.43
120°	5.26	6.41	7.06	7.44	7.80	8.16	8.78
135°	4.75	5.85	6.74	7.21	7.56	7.93	8.71
150°	4.01	5.07	6.01	6.78	7.20	7.53	8.23
Run VMG	3.47	4.39	5.20	5.94	6.55	7.04	7.69
Gybe Angles	146.0°	150.0°	150.5°	156.0°	174.0°	180.0°	180.0°