

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



Certificate
Number **00424**
Issued On **01/07/2020**
ORC Ref **03420000LQT**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	608kg
Maximum	608kg
Minimum*	456kg

**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 665.9	0.9011

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** **92.92**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

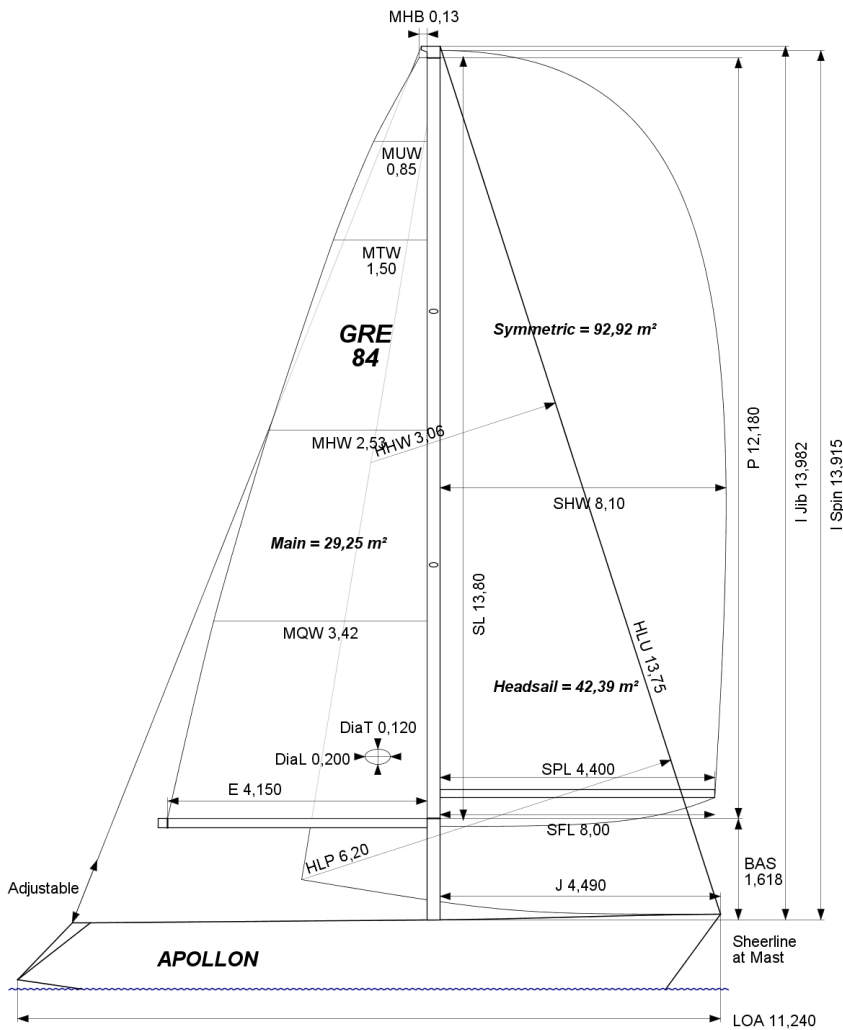
Class Division Length

CDL = 8.544

Stability (Measured)

Limit Positive Stab.: **109.4°**
Stability Index: **108.5**

Owner



BOAT Name APOLLON Sail Nr GRE-84	GPH 656.1	HULL Data File GR84 LOA 11.240m Offset File G1086.OFF MB 3.810m Displacement 6,041kg Draft 1.918m
CLASS Class SUNSHINE 36 ST.EXT Designer TONY CASTRO Builder JEANNEAU Series 10/1982 Age Date 01/1985 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.290% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS MODIFIED STERN TO SUNSHINE 38		IMSL 9.328m VCGD -0.037m Sink 18.42kg/mm RL 7.766m VCGM 0.168m WS 26.13m² LSM0 9.171m Displacement/Length ratio 7.8317
PROPELLER Installation Shaft exposed PRD 0.420 Type Feathering 2 blades PBW 0.137 PIPA 0.0044		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	636.0	709.1
Time on Time	0.9434	0.9519
Triple Number	Low Medium High	Low Medium High
Time on Distance	758.8 578.9 516.4	981.1 714.0 616.9
Time on Time	0.8896 1.1660 1.3070	0.6880 0.9454 1.0941

BOAT			
Name APOLLON	Sail Nr GRE-84		
File GR84	Data in meters/kilograms		
RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners/Checkstays 0		
Carbon Mast No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Non-Circular Rigging No			
Articulated Bowsprit No			
P 12.180	E 4.150	MDT1 0.120	MW 0.200
IG 13.982	J 4.490	MDL1 0.200	GO 0.230
ISP 13.915	SFJ 0.000	MDT2 0.120	BD 0.140
BAS 1.618	SPL 4.400	MDL2 0.200	MWT
FSD 0.029	TPS	TL 0.000	MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 01/05/2018		SG 1.0285	
FFM 1.190	FF 1.192	SFFP 0.716	
FAM 1.058	FA 1.061	SAFP 10.075	
W1 78.7	PD1 289.0	WD 10.830	
W2 78.7	PD2 289.0	GSA 78.5	
W3 78.7	PD3 289.0	RSA 6361.7	
W4 78.7	PD4 289.0	PLM 2205.0	
LCF from stem on CL / on sheer		5.989 / 6.263	
Maximum beam station from stem		6.550	
RM Measured		112.4kg-m	
RM Default		128.7kg-m	
Limit of positive stability / Stab.Index		109.4° / 108.5	
Freeboard at mast at 4.490		1.110	



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet

MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation Shaft exposed	PRD 0.420		
Type Feathering 2 blades	PBW 0.137		
Twin Screw No	PIPA 0.0044		
PSA 17.940	PHL 0.107	ST3 0.089	ESL 0.905
PSD 0.025	ST1 0.023	ST4 0.051	
PHD 0.067	ST2 0.076	ST5 0.225	

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COMMENTS			
MODIFIED STERN TO SUNSHINE 38			

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	0.13	0.85	1.50	2.53	3.42	29.26		20/04/2015	KAKITSIS	Dacron	SQUARE					
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.78	1.52	3.06	4.62	6.20	13.75	138%	42.39	Y	No		03/06/2018	KAKITSIS	Polyest	MAYLAR
2	0.06	0.66	1.29	2.59	3.95	5.36	14.14	119%	37.30		No		26/03/2016	KAKITSIS	Dacron	
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	13.80	13.80	13.80	8.10	8.00	92.92		11/09/2012	KAKITSIS	Unknown	WHITE					
2	13.91	13.85	13.88	7.85	7.75	90.57		26/03/2016	KAKITSIS	Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer GRE-116				
Date 01/05/2018				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Weight	Distance	Description

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	FUELL	ST.STEEL	80.0	6.00	0.08	80.0	
2	Tank	WATER	BLADDER	100.0	5.00	-0.17		
3	Tank	WATER	BLADDER	100.0	5.00	-0.17		
Id	Item	Weight	Distance	VCG Description				
1	Battery	44.0	6.80	-0.45 2 x 70Ah				
2	Battery	23.0	7.90	-0.25 90Ah				
1	Misc	13.0	1.10	1.00 WINDLASS				

2020

ORC Club Certificate Appendix

BOAT	
Name	APOLLON
Sail Nr	GRE-84
Certificate Number	00424
Issued On	01/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1125.7	933.1	821.3	757.7	734.6	724.9	727.7
52°	731.9	616.6	551.1	524.6	513.6	509.0	507.0
60°	688.7	583.9	533.3	511.4	500.0	494.7	491.6
75°	658.8	560.2	520.3	500.1	486.3	476.1	466.1
90°	666.9	561.8	517.7	496.5	481.2	467.4	445.6
110°	677.8	555.7	506.7	482.0	462.3	447.6	430.1
120°	695.6	567.5	511.3	484.3	462.0	441.5	413.3
135°	763.2	619.0	535.3	499.8	476.4	454.4	413.8
150°	901.8	713.6	601.6	532.2	500.3	478.6	438.2
Run VMG	1041.3	824.1	694.6	607.4	550.6	512.1	468.8
Selected Courses							
Windward / Leeward	1083.5	878.6	757.9	682.5	642.6	618.5	598.2
Circular Random	908.8	731.4	636.0	580.7	547.3	526.4	502.7
Coastal / Long Distance	1079.3	824.2	681.9	597.3	556.0	525.3	478.8
Non Spinnaker	965.3	771.5	665.7	603.6	565.5	541.4	513.7

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°	42.0°	41.8°	40.9°	39.8°	39.8°	40.5°
Beat VMG	3.20	3.86	4.38	4.75	4.90	4.97	4.95
52°	4.92	5.84	6.53	6.86	7.01	7.07	7.10
60°	5.23	6.17	6.75	7.04	7.20	7.28	7.32
75°	5.46	6.43	6.92	7.20	7.40	7.56	7.72
90°	5.40	6.41	6.95	7.25	7.48	7.70	8.08
110°	5.31	6.48	7.10	7.47	7.79	8.04	8.37
120°	5.18	6.34	7.04	7.43	7.79	8.15	8.71
135°	4.72	5.82	6.72	7.20	7.56	7.92	8.70
150°	3.99	5.04	5.98	6.76	7.20	7.52	8.22
Run VMG	3.46	4.37	5.18	5.93	6.54	7.03	7.68
Gybe Angles	146.0°	150.0°	150.0°	156.0°	174.0°	180.0°	180.0°