



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 **00177**
Issued On **06/06/2020**
ORC Ref **03420000K2M**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	492kg
Maximum	500kg
Minimum*	375kg

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

Special Scoring

ToD	ToT
Non Spin GPH 823.4	0.7287
Non Spin OSN 794.0	0.7557

Sails Limitations

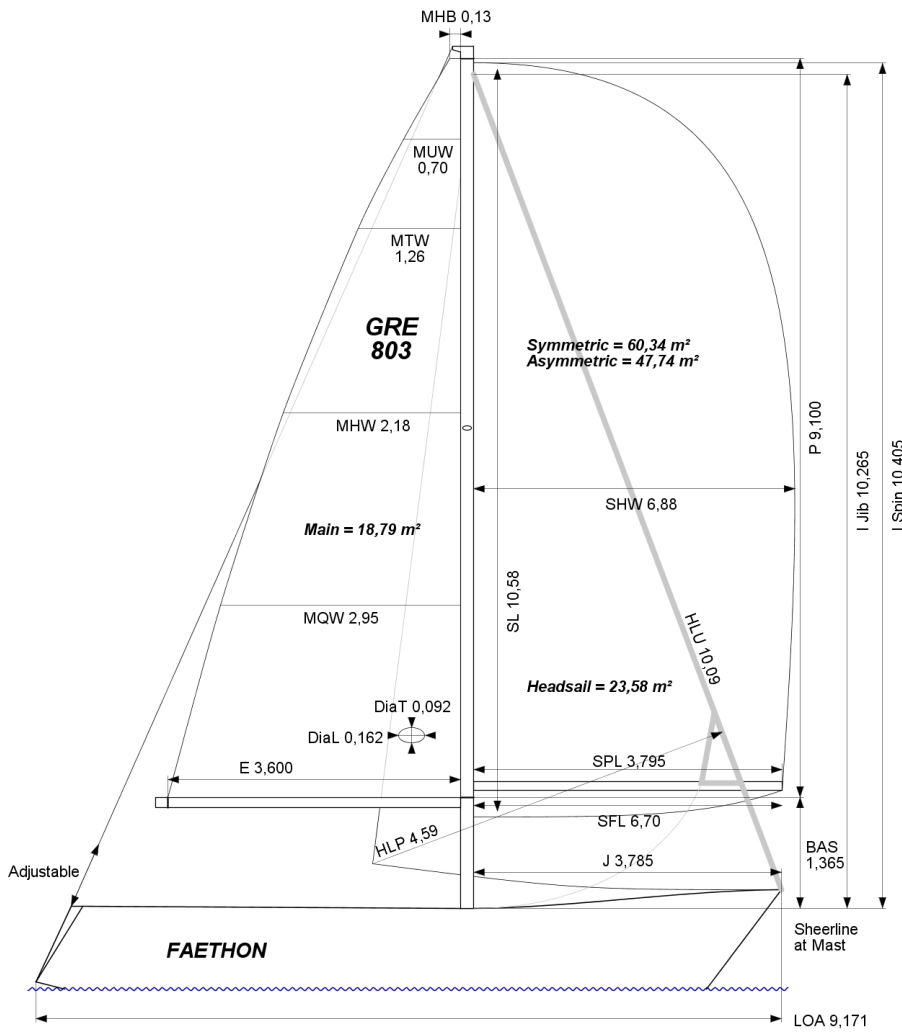
Headsails **1** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **60.34**
Asymmetric: **Yes** **47.90**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = **6.257**

Stability (Estimated)
Limit Positive Stab.: **108.3°**
Stability Index: **111.3**

Owner



BOAT Name FAETHON Sail Nr GRE-803		GPH 781.8	HULL Data File GR803 LOA 9.171m Offset File H077.off MB 3.094m Displacement 4,794kg Draft 1.531m			
CLASS Class MOODY 30 Designer A. PRIMROSE Builder MARINE PROJECTS Series 01/1978 Age Date 01/1978 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.659% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 7.897m VCGD 0.098m Sink 15.59kg/mm RL 4.615m VCGM 0.167m WS 22.55m² LSM0 7.905m Displacement/Length ratio 9.7049		
COMMENTS Measured weight.		Water Ballast 0 Trim Tab No BLR Index 0.0000		CENTERBOARD N/A		
PROPELLER Installation Strut PRD 0.420 Type Folding 3 blades PIPA 0.0007						
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	757.6			851.3		
Time on Time	0.7920			0.7929		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	924.5	687.9	588.2	1205.6	868.5	709.3
Time on Time	0.7301	0.9812	1.1475	0.5599	0.7772	0.9517

BOAT	
Name FAETHON	Sail Nr GRE-803
File GR803	Data in meters/kilograms

RIG			
Forestay Tension Aft	Spreaders 1		
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 9.100	E 3.600	MDT1 0.092	MW
IG 10.265	J 3.785	MDL1 0.162	GO
ISP 10.405	SFJ	MDT2 0.092	BD
BAS 1.365	SPL 3.795	MDL2 0.162	MWT
FSD -3.000	TPS	TL 0.000	MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 15/03/2019		SG 1.0262	
FFM 1.213	FF 1.213	SFFP 0.421	
FAM 1.021	FA 1.021	SAFP 8.592	
LCF from stem on CL / on sheer		5.243 / 5.463	
Maximum beam station from stem		5.660	
RM Measured		85.6kg-m	
RM Default		83.1kg-m	
Limit of positive stability / Stab.Index		108.3° / 111.3	
Freeboard at mast at 3.785		0.997	




2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.420		
Type Folding 3 blades	PBW		
Twin Screw No	PIPA 0.0007		
ST1	ST3	ST5	
ST2	ST4	EDL	

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COMMENTS	
Measured weight.	

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	0.13	0.70	1.26	2.18	2.95	18.79					* Copied from legacy					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
ORC						4.59	10.09	121%	23.58		No					* Copied from
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	10.58	10.58	10.58	6.88	6.70	60.35					* Copied from legacy *					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
ORC	10.26	10.26	10.26	5.38	6.40	47.75	asy85					* Copied from legacy *				

2020

ORC Club Certificate Appendix

BOAT	
Name	FAETHON
Sail Nr	GRE-803
Certificate Number	00177
Issued On	06/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1469.1	1207.5	1073.0	982.9	905.1	849.4	821.9
52°	928.9	774.1	690.6	633.2	595.4	573.8	560.4
60°	862.1	726.0	646.3	599.5	573.5	557.2	543.0
75°	817.0	692.2	614.3	576.7	556.4	542.2	520.8
90°	802.4	661.9	584.4	551.4	532.5	518.8	505.6
110°	777.4	640.8	571.4	541.5	519.8	499.7	470.8
120°	800.7	655.2	577.9	545.1	522.6	500.9	463.8
135°	898.0	717.6	609.3	561.9	536.7	515.4	474.8
150°	1040.4	818.4	685.5	600.7	560.8	537.6	498.3
Run VMG	1201.3	944.2	790.3	686.0	615.8	571.1	526.2
Selected Courses							
Windward / Leeward	1335.2	1075.8	931.6	834.5	760.5	710.3	674.0
Circular Random	1102.0	880.4	757.8	683.3	635.2	603.3	566.6
Coastal / Long Distance	1321.8	1003.7	827.7	714.7	645.7	597.1	537.5
Non Spinnaker	1173.4	932.3	797.5	714.5	660.4	624.0	581.4

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	46.5°	45.4°	45.0°	44.6°	44.3°	42.8°	42.0°
Beat VMG	2.45	2.98	3.36	3.66	3.98	4.24	4.38
52°	3.88	4.65	5.21	5.69	6.05	6.27	6.42
60°	4.18	4.96	5.57	6.00	6.28	6.46	6.63
75°	4.41	5.20	5.86	6.24	6.47	6.64	6.91
90°	4.49	5.44	6.16	6.53	6.76	6.94	7.12
110°	4.63	5.62	6.30	6.65	6.93	7.20	7.65
120°	4.50	5.49	6.23	6.60	6.89	7.19	7.76
135°	4.01	5.02	5.91	6.41	6.71	6.98	7.58
150°	3.46	4.40	5.25	5.99	6.42	6.70	7.22
Run VMG	3.00	3.81	4.56	5.25	5.85	6.30	6.84
Gybe Angles	148.0°	152.0°	152.0°	157.0°	174.0°	180.0°	180.0°