



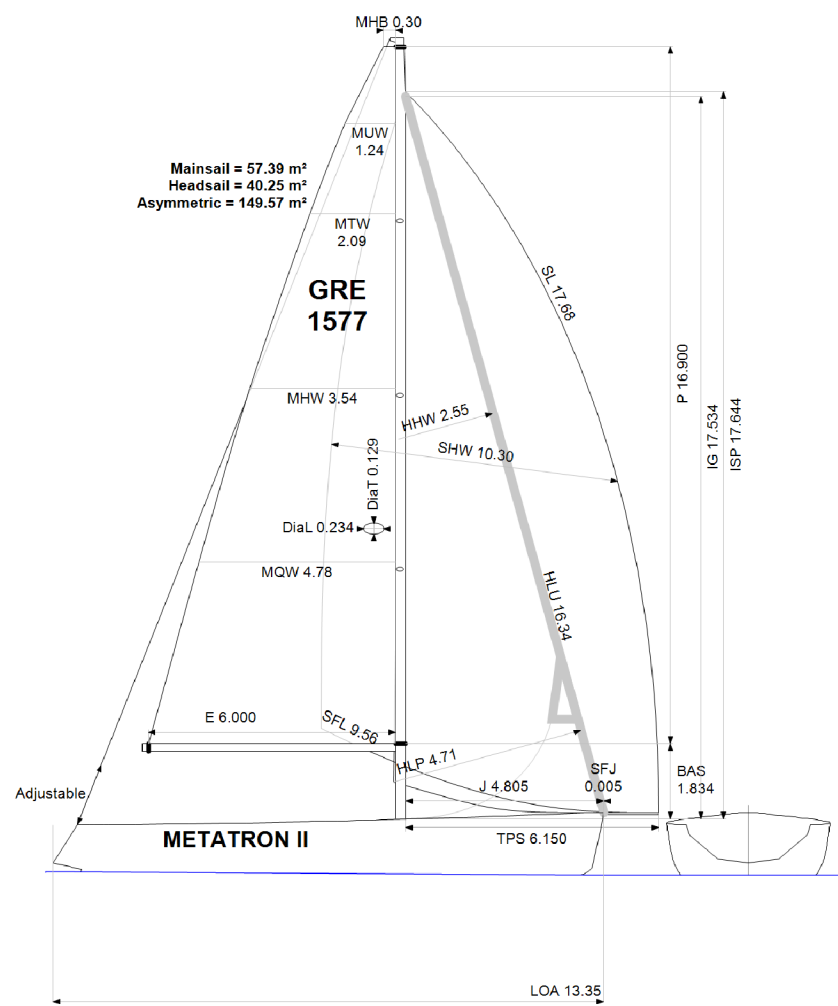
Club Certificate
2025

METATRON II
GRE-1577

Hellenic Sailing Federation
Offshore Committee
Επιτροπή Ανοικτής Θαλάσσης
Ελληνικής Ισοπολικής
Ομοσπονδίας



APH ToD: **509.5** CDL: **11.086**
APH ToT: **1.1776** CertNo: 00873



BOAT	
Class	FIRST 44.7
Designer	FARR
Builder	BENETEAU
Age date	03/2006
Series date	11/2003
Offset file	FIRST447.off
Data file	GR1577
HULL	
Length Overall	13.352 m
Maximum Beam	3.968 m
Draft	2.551 m
Displacement	9,838 kg
DLR	6.1671
IMS Division	Cruiser/Racer
Dynamic Allowance	0.210%
Age Allowance	0.487%
PROPELLER	
Installation	Strut
Type	Folding 3 blades
Diameter	0.457m
CREW	
Maximum weight	810 kg (declared)
Minimum weight	680 kg * when applied
Non Manual Power	No
Crew Arm Extension	
SAIL AREAS (m²)	
Mainsail	Measured 57.39 Rated 58.23
Headsail Luffed	40.25 40.25
Headsail Flying	
Symmetric	
Asymmetric	149.57 149.57
<i>(All asymmetric spinnakers with SHW/SFL > 85%)</i>	
STORM SAIL AREAS (m²)	
Trysail	17.75
Storm Jib	15.60
Heavy Weather Jib	42.12
SAIL LIMITS	
Headsails	6 * One set on the forestay
Spinnakers	5
STABILITY	
Righting Moment	243.3 kg·m
Stability Index	119.5

Wind Velocity	Rated boat velocities in knots								
	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	43.4°	43.4°	41.0°	39.5°	38.4°	37.8°	37.5°	37.4°	38.2°
Beat VMG	2.65	3.68	4.51	5.11	5.45	5.60	5.69	5.78	5.74
52°	4.15	5.62	6.69	7.39	7.75	7.91	8.00	8.10	8.12
60°	4.43	5.93	6.98	7.62	7.96	8.13	8.23	8.34	8.37
75°	4.63	6.16	7.18	7.78	8.14	8.38	8.55	8.73	8.82
90°	4.54	6.18	7.36	7.97	8.23	8.46	8.72	9.11	9.33
110°	4.62	6.31	7.54	8.21	8.64	8.97	9.20	9.61	9.96
120°	4.47	6.16	7.42	8.13	8.61	9.04	9.45	10.05	10.57
135°	3.95	5.53	6.83	7.73	8.29	8.74	9.21	10.24	11.72
150°	3.25	4.64	5.85	6.89	7.69	8.19	8.58	9.38	10.35
Run VMG	2.82	4.01	5.07	5.97	6.67	7.17	7.59	8.29	8.99
Gybe Angles	142.1°	142.1°	146.0°	149.3°	151.7°	155.1°	160.1°	162.6°	158.4°

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Wind Velocity	Time Allowances in secs/NM								
	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1357.2	977.2	797.8	705.1	661.0	642.6	632.3	622.4	626.7
52°	866.7	640.3	538.0	487.1	464.7	455.2	450.0	444.3	443.3
60°	812.8	606.8	516.1	472.7	452.4	442.6	437.6	431.8	430.0
75°	777.7	584.5	501.3	462.6	442.1	429.6	421.2	412.4	408.0
90°	793.8	582.6	488.9	451.6	437.2	425.3	412.7	395.3	386.0
110°	779.6	570.6	477.4	438.6	416.9	401.3	391.2	374.8	361.5
120°	805.5	584.8	485.1	442.7	418.3	398.2	381.1	358.1	340.5
135°	912.1	650.9	527.3	465.6	434.4	411.7	390.9	351.6	307.2
150°	1106.1	776.6	615.1	522.2	468.4	439.5	419.4	383.8	347.9
Run VMG	1277.3	896.8	710.3	603.0	539.6	502.2	474.3	434.0	400.2
Selected Courses									
Windward / Leeward	1316.9	937.0	754.1	654.0	600.3	572.4	553.3	528.2	513.5
All purpose	997.8	720.5	590.6	524.9	491.1	471.9	458.1	438.6	424.8

Single Number Scoring Options

Course	Time On Distance	Time On Time
Windward / Leeward	629.4	0.9533
All purpose	509.5	1.1776

Custom scoring options for Greece

Scoring Option	Time On Distance	Time On Time
Coastal/Long Distance	554.7	1.0818
Triple Number Coastal/Long Distance Low	655.5	0.9153
Triple Number Coastal/Long Distance Medium	505.8	1.1862
Triple Number Coastal/Long Distance High	454.2	1.3209
Triple Number Windward/Leeward Low	845.5	0.7096
Triple Number Windward/Leeward Medium	624.1	0.9614
Triple Number Windward/Leeward High	548.7	1.0935

Performance Curve	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Coastal/Long Distance	1393.0	933.0	708.5	590.2	523.8	489.7	462.4	420.6	407.3

- AUS AUT BRA BUL CAN CYP DEN ESP EST FIN FRA GER GRE HUN ISR
JPN KOR LTN NED NOR POR RSA RUS SLO SUI SWE UKR USA

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Data in meters/kilograms (Metric)

HULL AND APPENDAGES (Lightship Trim)			
Class	FIRST 44.7	LOA	13.352
Measurement	24/04/2012	Max. Beam	3.968
HIN		Draft	2.551
Plan review		Displacement	9.838
Hull construction	Solid	Wetted area	36.56
Carbon rudder	No	IMS L	11.966
Light stanchions	No	LSMO	11.684
Trim tab	No	Acc. length	12.896
		Sink (kg/mm)	27.67
		VCGD	0.099
		VCGM	0.124
		RM Rated (kg·m)	243.3
		Limit of positive stability(°)	113.6
		Stability Index	119.5
		Default crew weight	859
		Declared crew weight	810

PROPELLER			
Propeller Type	Folding 3 blades		
Installation	Strut	PRD	0.487
Twin screw	No	PSW	0.150
Hydro generator	No	PIPA	0.0039
		EDL	3.020
		ST1	0.048
		ST2	0.175
		ST3	0.177
		ST4	0.111
		ST5	0.275
RIG			
Forestay tension	Att	P	16.900
Inner stay	None Fitted	IG	17.534
Mast material	Aluminum	ISP	17.644
Single headsail furler	Yes	MDT1	0.129
Mainsail furler	No	MDL1	0.234
Articulated bowsprit	No	MDT2	0.128
Non-circular rigging	No	MDL2	0.196
Fiber rigging	No	FL	1.100
Adjustable mast foot	No	MW	0.234
Running backstays	0	GO	0.269
Checkstays	0		
Spreaders	3		
Rotating mast	No		
		E	6.000
		J	4.805
		BAS	1.834
		FSD	0.035
		SFJ	0.005
		SPL	
		WPL	
		TPS	6.150
		BD	0.189
		MWT	
		MCG	

FLOTATION AND STABILITY							
Calculation method	Poles inclining	SFFP	0.322	SAFP	12.761	W1	115.0
Flotation Date	07/04/2016	FFM	1.538	FAM	1.134	W2	115.0
Measurer	GRE-16	FF	1.522	FA	1.158	W3	115.0
		LCFcl	7.375	LCFsh	7.628	W4	115.0
		SG	1.0250	HBI	1.340	PD1	224.0
						PD2	224.0
						PD3	224.0
						PD4	224.0
						WD	13.450
						PLM	2069.00
						GSA	50.2
						RSA	5941.7
						RM	247.9

INVENTORY						
TANKS						
Id	Description	Sp.Wght	Capacity	Condition	LCG	VCG
5	HOLDING TANKS PVC 2X85H, 2nd tank@ 8.60		170	0	2.70	
4	FUEL PVC 200 lt diesel / VCG=sheer-1,26m	0.9000	200	200	11.00	
3	WATER PVC empty		200	0	11.00	
2	WATER PVC empty (2x100lt)		200	0	6.90	
1	WATER PVC empty		136	0	4.30	
Total deductible					180	11.00
OTHER ITEMS						
Id	Kind	Description	Weight	LCG	VCG	
4	Miscellaneous	MICROWAVE		7.60		
3	Miscellaneous	RADAR + REFLECTOR		4.70		
2	Miscellaneous	WINDLASS 1200W		1.30		
1	Miscellaneous	GENERATOR + BOILER @ 10.30		70	10.70	
4	Battery	65Ah		16	10.00	
3	Battery	110Ah		28	10.00	
2	Battery	180Ah		44	10.00	
1	Battery	2x180Ah		88	10.00	
1	Engine	YANMAR 4JH4E 54HP				
Total deductible					0	

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MAINSAIL									
Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.Date	Comment	
2	0.30	1.24	2.09	3.54	4.78	57.39	11/06/2025	4T Forte	
1	0.10	1.06	1.95	3.59	4.95	57.28	09/07/2024	VANDAGE ONE	

HEADSAIL												
Id	HBB	HUW	HTW	HHW	HQW	HLP	HLU	BIn	Flying FT	Area	Meas.Date	Comment
1	0.06	0.74	1.39	2.55	3.57	4.71	16.34	Yes	No	40.25	09/07/2024	
2	0.07	0.68	1.28	2.50	3.67	4.76	16.21	Yes	No	39.85	09/07/2024	LM

ASYMMETRIC SPINNAKER									
Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Meas.Date	Comment
2	19.46	15.90	17.68	10.30	9.56	108%	149.57	09/07/2024	RED
3	19.66	15.90	17.79	10.20	9.57	107%	149.35	28/03/2023	YELLOW