

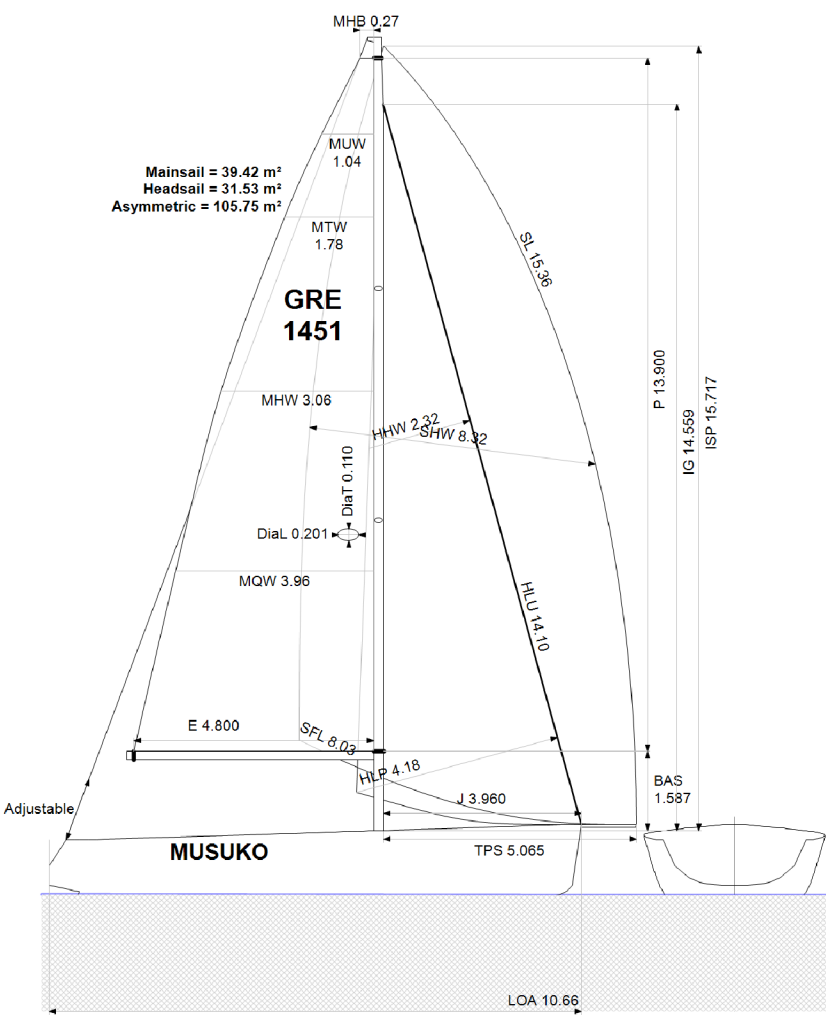


International Certificate
2025
MUSUKO
GRE-1451

Hellenic Sailing Federation
Offshore Committee
Επιτροπή Ανοικτής Θαλάσσης
Ελληνικής Ισομετρικής
Ομοσπονδίας



APH ToD: **549.9** CDL: **9.127**
APH ToT: **1.0911** CertNo: **01070**



BOAT	
Class	FIRST 35
Designer	FARR
Builder	BENETEAU
Age date	04/2010
Series date	05/2009
Offset file	FIRST35.off
Data file	GR1451
HULL	
Length Overall	10.660 m
Maximum Beam	3.636 m
Draft	2.188 m
Displacement	5.429 kg
DLR	6.6942
IMS Division	Cruiser/Racer
Dynamic Allowance	0.180%
Age Allowance	0.487%
PROPELLER	
Installation	Strut
Type	Folding 2 blades
Diameter	0.403m
CREW	
Maximum weight	680 kg (declared)
Minimum weight	550 kg * when applied
Non Manual Power	No
Crew Arm Extension	
SAIL AREAS (m²)	
Mainsail	Measured 39.42, Rated 40.15
Headsail Luffed	31.53
Headsail Flying	
Symmetric	
Asymmetric	105.75, 105.75
(if asymmetric(s) with SHW/SFL < 85%)	
STORM SAIL AREAS (m²)	
Trysail	11.88
Storm Jib	10.71
Heavy Weather Jib	28.91
SAIL LIMITS	
Headsails	5
Spinnakers	4
STABILITY	
Righting Moment	114.4 kg·m
Stability Index	115.2

Rated boat velocities in knots										
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt	
Beat Angles	43.3°	43.3°	41.0°	39.3°	38.5°	38.1°	38.0°	38.9°	39.7°	
Beat VMG	2.52	3.49	4.25	4.76	4.99	5.10	5.15	5.18	5.05	
52°	3.95	5.31	6.27	6.85	7.10	7.21	7.27	7.33	7.30	
60°	4.21	5.59	6.51	7.03	7.29	7.41	7.48	7.56	7.53	
75°	4.32	5.78	6.74	7.17	7.48	7.68	7.80	7.95	8.00	
90°	4.58	6.05	6.98	7.45	7.71	7.87	8.02	8.33	8.50	
110°	4.42	5.96	7.03	7.58	7.97	8.26	8.53	8.99	9.33	
120°	4.27	5.81	6.91	7.50	7.95	8.37	8.75	9.36	10.16	
135°	3.74	5.22	6.40	7.17	7.64	8.09	8.54	9.63	11.61	
150°	3.09	4.40	5.54	6.49	7.14	7.56	7.93	8.70	9.98	
Run VMG	2.68	3.81	4.79	5.62	6.21	6.66	7.04	7.69	8.64	
Gybe Angles	143.0°	143.0°	147.4°	149.9°	152.8°	157.9°	162.1°	162.4°	140.5°	

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Time Allowances in secs/NM										
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt	
Beat VMG	1428.0	1032.8	847.9	756.6	720.9	706.1	698.5	695.5	713.2	
52°	911.8	677.8	574.1	525.9	506.8	499.4	495.0	491.1	493.1	
60°	855.5	643.7	553.0	512.0	493.5	485.7	481.2	476.4	477.8	
75°	834.2	623.2	534.3	502.1	481.5	468.9	461.5	452.9	449.8	
90°	786.3	594.9	515.6	483.2	466.9	457.5	448.7	432.0	423.4	
110°	815.2	603.8	512.1	475.0	451.6	435.9	422.1	400.5	385.9	
120°	843.5	619.6	520.7	479.7	452.8	430.2	411.4	384.7	354.3	
135°	962.5	689.8	562.5	502.4	470.9	445.1	421.4	373.9	310.1	
150°	1163.8	819.0	650.3	555.0	504.2	476.1	454.0	413.7	360.8	
Run VMG	1344.1	945.7	750.9	640.8	579.5	540.8	511.3	468.0	416.6	
Selected Courses										
Windward / Leeward	1385.7	989.3	799.4	698.7	650.2	623.5	604.9	581.7	564.9	
All purpose	1044.4	759.6	628.0	563.6	532.2	513.6	500.0	480.1	463.7	

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	678.5	0.8844
All purpose	549.9	1.0911

Custom scoring options for Greece

Scoring Option	Time On Distance	Time On Time
Coastal/Long Distance	597.8	1.0037
Triple Number Coastal/Long Distance Low	693.8	0.8648
Triple Number Coastal/Long Distance Medium	546.0	1.0989
Triple Number Coastal/Long Distance High	495.9	1.2098
Triple Number Windward/Leeward Low	894.3	0.6709
Triple Number Windward/Leeward Medium	672.1	0.8927
Triple Number Windward/Leeward High	600.8	0.9986

Performance Curve	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Coastal/Long Distance	1465.2	984.9	751.5	631.9	567.4	533.0	504.7	459.4	441.8

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

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HULL AND APPENDAGES (Lightship Trim)				Data in meters/kilograms (Metric)			
Class	FIRST 35	LOA	10.660	VCGD	0.140		
Measurement	24/09/2014	Max. Beam	3.636	VCGM	0.149		
HIN		Draft	2.188	RM Rated (kg·m)	114.4		
Plan review		Displacement	5.429	Limit of positive stability(°)	116.0		
Hull construction	Solid	Wetted area	25.79	Stability Index	115.2		
Carbon rudder	No	IMS L	9.672	Default crew weight	623		
Light stanchions	No	LSM0	9.325	Declared crew weight	680		
Trim tab	No	Acc. length	10.660				
		Sink (kg/mm)	19.00				

PROPELLER			
Propeller Type	Folding 2 blades		
Installation	Strut	PRD	0.403
Twin screw	No	PSW	0.124
Hydro generator	No	PIPA	0.0032
		EDL	2.120
		ST1	0.041
		ST2	0.181
		ST3	0.181
		ST4	0.111
		ST5	0.222
RIG			
Forestay tension	Att	P	13.900
Inner stay	None Fitted	IG	14.559
Mast material	Aluminum	ISP	15.717
Single headsail furler	No	MDT1	0.110
Mainsail furler	No	MDL1	0.201
Articulated bowsprit	No	MDT2	0.110
Non-circular rigging	No	MDL2	0.161
Fiber rigging	No	TL	1.120
Adjustable mast foot	No	MW	0.201
Running backstays	0	GO	0.221
Checkstays			
Spreaders	2		
Rotating mast	No		

FLOTATION AND STABILITY							
Calculation method	Poles inclining	SFFP	0.422	SAFP	10.320	W1	72.0
Flotation Date	24/09/2014	FFM	1.417	FAM	1.081	W2	72.0
Measurer	GRE-21	FF	1.411	FA	1.094	W3	72.0
		LCFcl	5.827	LCFsh	6.090	W4	72.0
		SG	1.0230	HBI	1.288	PD1	541.6
						PD2	537.5
						PD3	548.2
						PD4	548.4
						GSA	1.0
						RSA	1.0
						RM	115.5

INVENTORY							
TANKS	Id	Description	Sp.Wght	Capacity	Condition	LCG	VCG
	1	FUEL PVC hard (C)	0.9000	75	76	8.40	
	2	WATER PVC hard (P)		100	0	4.80	
	3	WATER PVC hard (S)		100	0	4.80	
	4	HOLDING PVC hard (S)		80	0	8.70	
				Total deductible		68	8.40
OTHER ITEMS	Id	Kind	Description	Weight	LCG	VCG	
	1	Miscellaneous	WATER HEATER 25L (C)		4.80		
	2	Miscellaneous	GAS OVEN w 2 BURNERS (P)		6.30		
	3	Miscellaneous	GENOA FURLER				
	1	Battery	2 x 110 Ah (P)		7.80		
	2	Battery	1 x 70 Ah (C)		7.00		
	3	Battery	1 x 60 Ah (S)		5.00		
	1	Engine	YANMAR 3YM30 SD (29HP)				
				Total deductible			

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MAINSAIL												
Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.Date	Comment				
3	0.27	1.04	1.78	3.06	3.96	39.42	23/09/2022					
HEADSAIL												
Id	HBB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying FT	Area	Meas.Date	Comment
5	0.10	0.67	1.24	2.32	3.31	4.18	14.10	Yes	No	31.53	27/02/2025	
2.5	0.09	0.59	1.10	2.13	3.16	4.09	14.00	Yes	No	29.57	30/09/2024	J2.5
3	0.06	0.53	1.02	2.05	3.11	4.21	13.68	Yes	No	28.46	15/03/2018	J3
4						3.86	12.93	Yes	No	25.40	24/09/2014	HWJ
ASYMMETRIC SPINNAKER												
Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Meas.Date	Comment			
2	16.55	14.17	15.36	6.32	8.03	104%	105.75	30/10/2023	A2			
1	16.22	14.31	15.27	7.57	8.10	93%	97.65	24/09/2014	A1			
4	15.74	12.65	14.20	7.67	7.86	98%	91.18	07/03/2024	A4			
5	14.90	13.14	14.02	6.84	7.12	96%	80.57	07/10/2016	A5			
0	14.58	13.45	14.02	6.25	6.22	76%	77.60	18/06/2021	A0			

CRUISER/RACER REQUIREMENTS*			
Accommodation length	10.7 m	Table area	0.55 m²
Minimum number of berths	5	Personal gear storage	0.20 m³
Minimum number of seats in cockpit	5	Fuel storage	0.30 m³
Cabin sole		Stoves	
Galley gear storage		Toilet	
Navigation area		Hanging locker	
Headroom	1.75 m	Fresh water capacity	117 l
Fuel			