



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 **01975**
Issued On **01/07/2020**
ORC Ref **03420000LQP**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default 525kg
Maximum **400kg**
Minimum* **300kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	801.8	0.7483
Non Spin OSN	775.6	0.7736

Sails Limitations

Headsails **1** Spinnakers **4**
Woven Polyester
Asymmetric on centerline
Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 53.36**
Flying H/S: **No**
Spin. Pole: **No**

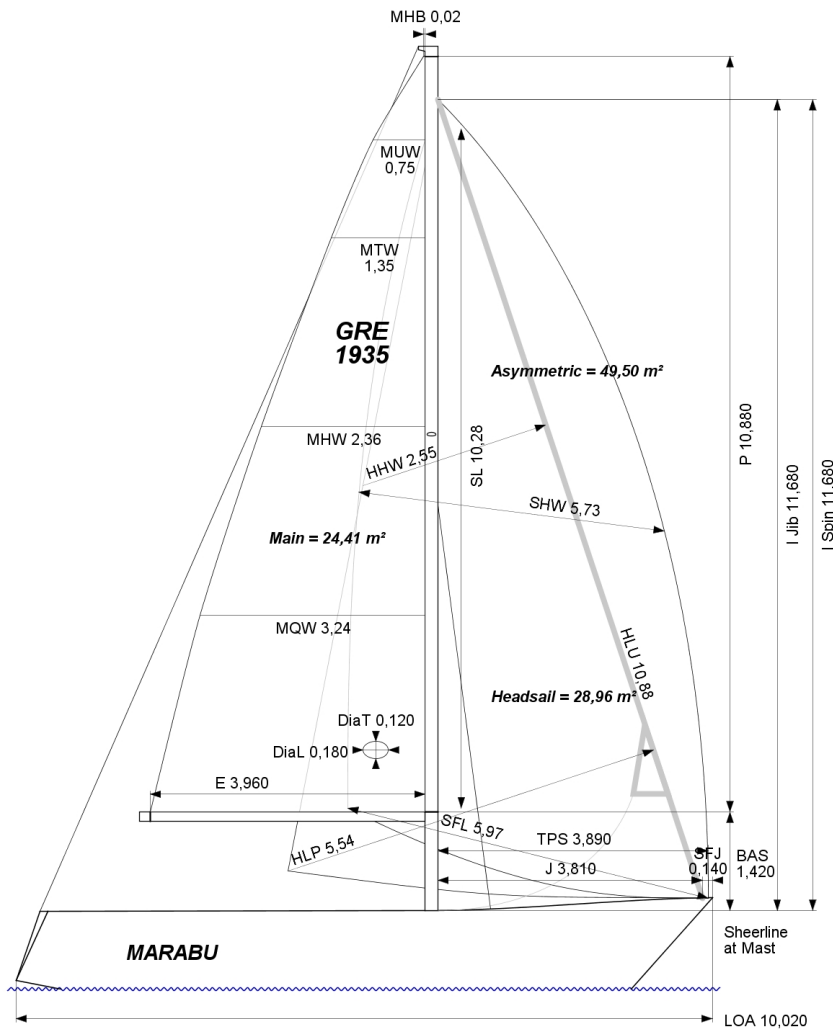
Class Division Length

CDL = 6.529

Stability (Estimated)

Limit Positive Stab.: **116.4°**
Stability Index: **115.2**

Owner



BOAT	GPH	HULL
Name MARABU Sail Nr GRE-1935	774.1	Data File GR1935 LOA 10.020m Offset File GR0096.BOF MB 3.466m Displacement 4,773kg Draft 1.347m
CLASS Class MOODY 33 MKI Designer Angus Primrose Builder Marine Projects Series 01/1978 Age Date 01/1978 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.479% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS Builder's displacement.		IMSL 8.393m VCGD 0.000m Sink 17.49kg/mm RL 4.671m VCGM 0.034m WS 23.28m² LSM0 8.269m Displacement/Length ratio 8.4417
PROPELLER Installation Shaft exposed PRD 0.330 Type Solid 3 blades PBW 0.140 PIPA 0.0136		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD NA
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	753.1	862.0
Time on Time	0.7967	0.7831
Triple Number	Low Medium High	Low Medium High
Time on Distance	914.8 680.0 588.1	1206.6 876.2 732.8
Time on Time	0.7379 0.9927 1.1477	0.5594 0.7704 0.9211

BOAT	
Name MARABU	Sail Nr GRE-1935
File GR1935	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS	
Inclining Test Enter VCG directly	
Flotation date 25/06/2020	SG 1.0255
VCGDe 0.000	
FFM 1.293	FF 1.293 SFFP 1.014
FAM 1.123	FA 1.123 SAFF 9.560
LCF from stem on CL / on sheer 5.581 / 5.813	
Maximum beam station from stem 5.614	
RM Measured 140.0kg-m	
RM Default 111.8kg-m	
Limit of positive stability / Stab.Index 116.4° / 115.2	
Freeboard at mast at 3.950 1.132	



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2020
Measurements
Datasheet


RIG	
Forestay Tension Fixed	Spreaders 1
Inner Stay Fixed	Runners/Checkstays 0
Carbon Mast No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 10.880	E 3.960 MDT1 0.120 MW
IG 11.680	J 3.810 MDL1 0.180 GO
ISP 11.680	SFJ 0.140 MDT2 BD
BAS 1.420	SPL MDL2 MWT
FSD -3.000	TPS 3.890 TL -3.000 MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Shaft exposed	PRD 0.330
Type Solid 3 blades	PBW 0.140
Twin Screw No	PIPA 0.0136
PSA	PHL ST3 ESL
PSD	ST1 ST4
PHD	ST2 ST5

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COMMENTS	
Builder's displacement.	

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	0.02	0.75	1.35	2.36	3.24	24.41		25/06/2020		Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.04	0.64	1.25	2.55	4.01	5.54	10.88	145%	28.96		No		25/06/2020		Dacron	
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				
AS1	10.86	9.70	10.28	5.73	5.97	49.50	asym		14/03/2011		Unknown					

2020

ORC Club Certificate Appendix

BOAT	
Name MARABU	Certificate Number 01975
Sail Nr GRE-1935	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	1482.6	1214.9	1070.4	977.0	908.4	875.8	883.3
52°	921.4	758.5	672.0	614.3	577.9	561.0	559.1
60°	832.5	696.1	619.3	574.0	549.6	536.0	529.9
75°	775.4	653.4	583.3	548.7	529.4	515.4	497.1
90°	777.4	640.6	563.1	528.8	508.6	493.6	478.9
110°	767.3	629.6	556.4	523.5	500.4	478.8	444.0
120°	795.1	649.2	566.8	529.3	505.3	483.0	444.5
135°	882.2	708.0	606.8	550.3	521.5	499.4	459.3
150°	1032.0	811.7	691.1	613.2	567.4	537.9	500.6
Run VMG	1191.6	937.3	798.0	708.1	645.7	586.7	526.8
Selected Courses							
Windward / Leeward	1337.1	1076.1	934.2	842.5	777.0	731.3	705.0
Circular Random	1090.6	870.9	749.9	677.2	631.6	602.4	572.0
Coastal / Long Distance	1322.6	1000.8	824.1	709.7	641.1	592.3	530.4
Non Spinnaker	1144.6	907.8	775.8	695.7	645.1	612.9	579.4

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	48.8°	48.6°	47.8°	47.6°	47.4°	46.5°	47.3°
Beat VMG	2.43	2.96	3.36	3.68	3.96	4.11	4.08
52°	3.91	4.75	5.36	5.86	6.23	6.42	6.44
60°	4.32	5.17	5.81	6.27	6.55	6.72	6.79
75°	4.64	5.51	6.17	6.56	6.80	6.99	7.24
90°	4.63	5.62	6.39	6.81	7.08	7.29	7.52
110°	4.69	5.72	6.47	6.88	7.19	7.52	8.11
120°	4.53	5.54	6.35	6.80	7.12	7.45	8.10
135°	4.08	5.08	5.93	6.54	6.90	7.21	7.84
150°	3.49	4.44	5.21	5.87	6.34	6.69	7.19
Run VMG	3.02	3.84	4.51	5.08	5.58	6.14	6.83
Gybe Angles	145.5°	146.5°	146.0°	146.5°	172.0°	173.0°	176.5°