

BOAT
Name DE MAR A MAR Sail Nr GRE-336

GPH
689.9

HULL
Length Overall 10.490 m
Maximum Beam 3.536 m
Displacement 5,580 kg
Draft 1.844 m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 0.392%
Fwd Accommodation Yes
Hull Construction Solid
Carbon Rudder No
Crew Arm Extension
IMS L 8.990 VCGD 0.150 VCGM 0.122
Sink 18.08 kg/mm Wetted Area 25.27 m²



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2012
ORC International
Certificate

GENERAL
Class GIB SEA 106
Designer JOUBERT/NIVELT
Builder GIBERT MARINE
Series 01/1983
Age 01/1983
Age Allowance 0.975%
Offset File GR0047.off - 9/9/2013 17:30:40
Measurement by MAVRO/LIASK/SPIRID - 20/08/2004

SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	660.0			751.9		
Time On Time	0.9091			0.8977		
Performance Line	PLT	PLD		PLT	PLD	
	0.741	87.0		0.724	176.1	
Triple Number	Low	Medium	High	Low	Medium	High
	0.7953	1.0564	1.2799	0.6426	0.8899	1.0457

Rating Office

Offshore
Racing
Congress



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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1204.2	982.0	869.4	813.2	779.8	758.9	745.4
52°	769.3	639.0	577.9	545.2	530.7	521.9	513.6
60°	716.6	606.5	553.4	524.3	510.1	502.2	494.0
75°	678.3	583.4	536.2	509.1	489.5	476.7	466.6
90°	687.3	587.3	530.7	504.1	491.2	474.0	450.0
110°	702.0	583.7	527.3	495.2	470.0	451.1	434.9
120°	729.6	600.1	537.4	503.5	477.8	456.1	421.9
135°	824.6	657.7	574.3	527.9	498.7	475.0	436.1
150°	981.1	764.2	640.1	571.0	528.5	500.5	457.7
Run VMG	1132.9	882.4	736.4	643.7	582.9	540.8	489.2

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VPP Ver. 2012 1.01
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Selected Courses							
Windward / Leeward	1168.6	932.2	802.9	728.5	681.3	649.8	617.3
Circular Random	962.4	771.8	668.6	607.9	570.2	545.6	515.7
Ocean for PCS	1026.5	806.2	682.9	607.4	557.7	522.6	473.6
Non Spinnaker	1016.4	809.4	695.9	628.3	585.9	558.1	524.8

Crew Weight	
Declared	440 kg
Default*	621 kg
Non Manual Pwr	No

Special Scoring		
	ToD	ToT
D. Hand OSN	662.3	0.9060
Non Spin. OSN	688.8	0.8711
N/S Perf. Line	59.7	0.674

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	45.2°	44.0°	42.8°	41.5°	40.4°	39.8°	40.1°
Beat VMG	2.99	3.67	4.14	4.43	4.62	4.74	4.83
52°	4.68	5.63	6.23	6.60	6.78	6.90	7.01
60°	5.02	5.94	6.51	6.87	7.06	7.17	7.29
75°	5.31	6.17	6.71	7.07	7.35	7.55	7.72
90°	5.24	6.13	6.78	7.14	7.33	7.60	8.00
110°	5.13	6.17	6.83	7.27	7.66	7.98	8.28
120°	4.93	6.00	6.70	7.15	7.54	7.89	8.53
135°	4.37	5.47	6.27	6.82	7.22	7.58	8.25
150°	3.67	4.71	5.62	6.30	6.81	7.19	7.87
Run VMG	3.18	4.08	4.89	5.59	6.18	6.66	7.36
Gybe Angles	144.6°	148.5°	155.3°	163.0°	167.9°	172.3°	174.5°

Sails Limitations		
Genoas	Jibs	Spinnakers
3	2	3
Spinnaker configuration Symmetric		

Storm Sails Areas	
Heavy Weather Jib	24.83
Storm Jib (JL=8.82)	9.20
Storm Trysail	7.95

Owner

BOAT	
Name DE MAR AMAR	Sail Nr GRE-336
File GR336.dxt	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 01/03/2006		SG 1.0360	
FFM 1.270	FF 1.266	SFFP 0.604	
FAM 0.995	FA 0.992	SAFP 9.706	
W1 19.000	PD1 62.0	WD 10.730	
W2 38.000	PD2 127.0	GSA 23.8	
W3 57.000	PD3 189.0	RSA 5941.7	
W4 76.000	PD4 249.0	PLM 2066.0	
LCF from stem on CL / on sheer		6.202 / 0.000	
Maximum beam station from stem		6.830	
RM Measured / Default		117.5 / 110.3	
Limit of positive stability / Stab.Index		110.2° / 111.1	
Freeboard at mast at 4.015		1.122	



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IMS Measurement
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RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 11.950	E 3.800	MDT1 0.120	TL 0.000
IG 13.500	J 3.960	MDL1 0.180	MWT
ISP 13.490	SFJ 0.055	MDT2 0.120	MCG
SPS 2.920	SPL 3.980	MDL2 0.180	CPW 2.206
BAS 1.450	TPS	MW 0.180	BD 0.115
BAL 0.000	FSP 0.064	GO 0.198	BWT

PROPELLER			
Installation Shaft	PRD 0.430		
Type Folding	PBW 0.130		
Twin Screw No	PIPA 0.0032		
PSA 18.000	PHL 0.157	ST3 0.064	ESL 0.830
PSD 0.025	ST1 0.018	ST4 0.049	
PHD 0.050	ST2 0.070	ST5 0.200	

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MIZZEN RIG AND SAILS	
N/A	

MOVEABLE BALLAST	
N/A	

COMMENTS	
ex "FIDO"	

CENTERBOARD	
N/A	



Invalid for Racing

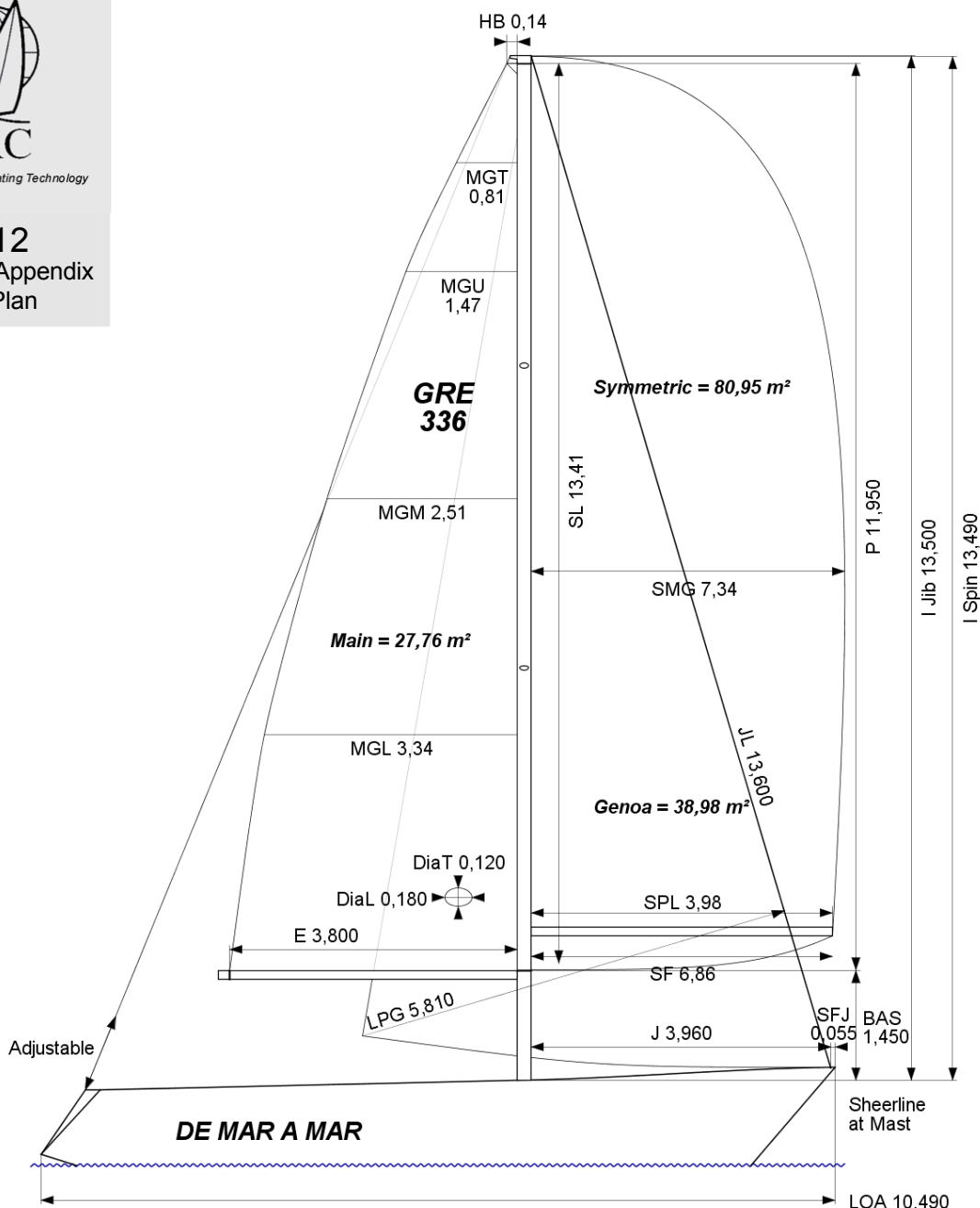
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SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL	Area		Area (r)		Formula
	0.142	0.81	1.47	2.51	3.34	27.76	28.28	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)		
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG			0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)
	0.06	0.68	1.37	2.82	4.34	13.60	5.81	38.98		
Symmetric	SL	SMG	SF							SL · (SF + 4·SMG) / 6
	13.41	7.34	6.86	80.95						
Asymmetric Not Available										
Code Zero Not Available										



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL														
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment			
1	0.142	0.81	1.47	2.51	3.34	27.76	LIASKOVITI	04/03/2006		Dacron				
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.06	0.68	1.37	2.82	4.34	5.81	13.60	147%	38.99	GIAPANT	21/07/2011	DL SAILS	Dacron	
1	0.06	0.67	1.33	2.75	4.26	5.78	13.51	146%	38.10	DIAMANT	08/02/2011	Sailoft	Kevlar	
SYMMETRIC SPINNAKERS														
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
6	13.41	7.34	6.86	80.95	DIAMANTIS	08/02/2011	Sailoft	Nylon	0.6					
2	13.05	7.12	6.87	76.89	SPIRIDELI	16/03/2007	ELVSTROM	Nylon						
3	12.65	7.15	6.76	74.55	SPIRIDELI	16/03/2007	DL	Nylon						
4	12.30	7.10	6.57	71.69	SPIRIDELI	16/03/2007	DL	Nylon						
ASYMMETRIC SPINNAKERS														
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment		