

BOAT Name FATA MORGANA Sail Nr GRE-1136	GPH 743.1	HULL Length Overall 9.340m Maximum Beam 3.154m Displacement 4,286kg Draft 1.525m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.540% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension IMSL 7.927m VCGD 0.001m Sink 14.30kg/mm RL 5.655m VCGM -0.012m WS 20.70m²
GENERAL Class MAXI 95 Designer PELLE PETTERSSON Builder MAXI YACHTS Series 01/1976 Age 01/1980 Age Allowance 0.487% Offset File GR0030.BOF - 13/11/1993 00:12:36 Measurement by VOGIATZIS - 20/05/2005		

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	720.7			804.9		
Time On Time	0.8325			0.8386		
Performance Line	PLT		PLD	PLT		PLD
	0.682		82.4	0.633		139.5
Triple Number	Low	Medium	High	Low	Medium	High
	0.7771	1.0310	1.1809	0.5966	0.8281	0.9881

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1320.8	1094.5	971.7	887.9	833.7	808.9	796.9
52°	846.4	712.7	630.8	585.7	563.7	553.5	548.1
60°	790.9	669.3	596.9	564.9	547.3	536.3	528.8
75°	748.3	633.8	575.3	548.7	533.3	519.4	498.7
90°	739.8	618.7	563.8	536.9	516.2	502.5	487.0
110°	751.0	618.2	562.4	537.6	515.6	493.7	461.7
120°	778.7	649.1	575.1	544.1	522.8	501.4	462.2
135°	877.2	714.8	614.0	564.3	538.7	517.7	476.7
150°	1025.1	806.4	684.7	602.6	560.9	536.9	496.1
Run VMG	1183.7	926.6	775.5	673.7	602.0	562.1	518.3
Selected Courses							
Windward / Leeward	1252.2	1010.5	873.6	780.8	717.9	685.5	657.6
Circular Random	1037.8	832.6	720.4	653.7	611.9	584.6	551.8
Ocean for PCS	1105.8	869.1	735.5	652.9	598.6	561.0	510.9
Non Spinnaker	1095.4	873.6	751.1	677.4	630.9	600.5	564.6

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°	43.5°	43.4°	44.1°	42.8°	41.6°	41.5°
Beat VMG	2.73	3.29	3.70	4.05	4.32	4.45	4.52
52°	4.25	5.05	5.71	6.15	6.39	6.50	6.57
60°	4.55	5.38	6.03	6.37	6.58	6.71	6.81
75°	4.81	5.68	6.26	6.56	6.75	6.93	7.22
90°	4.87	5.82	6.38	6.70	6.97	7.16	7.39
110°	4.79	5.82	6.40	6.70	6.98	7.29	7.80
120°	4.62	5.55	6.26	6.62	6.89	7.18	7.79
135°	4.10	5.04	5.86	6.38	6.68	6.95	7.55
150°	3.51	4.46	5.26	5.97	6.42	6.70	7.26
Run VMG	3.04	3.89	4.64	5.34	5.98	6.40	6.95
Gybe Angles	148.5°	156.6°	170.8°	172.4°	175.9°	178.9°	179.2°



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2015
ORC International
Certificate

Rating Office
Offshore
Racing
Congress

Invalid for
Racing

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Certificate
Number **000490**
ORC Ref **GRE01003479**
Issued On **22/04/2015**
VPP Ver. **2015 1.01**
Valid until **29/02/2016**

Crew Weight
Declared **470kg**
Default* **497kg**
Non Manual Pwr **No**

Special Scoring
ToD ToT
Non Spin GPH **775.5 0.7737**
Non Spin OSN **748.1 0.8020**
N/S Perf. Line **60.3 0.626**

Sails Limitations
Headsails **5** Spinnakers **3**

Class Division Length
CDL = **6.792**

Storm Sails Areas
Heavy Weather Jib **18.95**
Storm Jib (JL=7.70) **7.02**
Storm Trysail **6.31**

Owner

BOAT			
Name	FATAMORGANA	Sail Nr	GRE-1136
File	GR1136.dxt	Data in	meters/kilograms

RIG							
Forestay Tension	Fixed			Spreaders	1		
Inner Stay	Fixed			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	10.600	E	3.400	MDT1	0.132	MW	0.160
IG	11.670	J	3.350	MDL1	0.160	GO	0.210
ISP	11.680	SFJ	0.465	MDT2	0.132	BD	0.110
BAS	1.090	SPL	3.300	MDL2	0.160	MWT	
FSP	0.068	TPS	3.800	TL	0.000	MCG	

MIZZEN RIG AND SAILS	
	N/A

COMMENTS	

INCLINING TEST AND FREEBOARDS					
Inclining Test		Current Inclining			
Flotation date		19/05/2005		SG	
FFM	1.066	FF	1.087	SFFP	0.574
FAM	0.861	FA	0.855	SAFP	9.000
W1	15.000	PD1	67.0	WD	9.245
W2	30.000	PD2	128.0	GSA	50.3
W3	45.000	PD3	192.0	RSA	5541.7
W4	60.000	PD4	257.0	PLM	2026.0
LCF from stem on CL / on sheer				5.235 / 5.466	
Maximum beam station from stem				5.415	
RM Measured				75.9kg·m	
RM Default				64.7kg·m	
Limit of positive stability / Stab.Index				116.5° / 117.2°	
Freeboard at mast at 3.815				0.979	

PROPELLER					
Installation	Type	Shaft non exposed		PRD	0.442
		Folding 2 blades		PBW	0.107
Twin Screw		No		PIPA	0.0016
PSA	15.000	PHD	0.078	ESL	0.068
PSD	0.025	PHL	0.130		

MOVEABLE BALLAST
N/A

CENTERBOARD	
	N/A

SAILS (Maximum Areas)								
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula
	0.145	0.73	1.29	2.15	2.82	21.30	21.65	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Symmetric	SL	SMG	SF					
	11.42	5.98	5.85			56.66		$SL \cdot (SF + 4 \cdot SMG) / 6$
Asymmetric	SLU	SLE	ASL	AMG	ASF			
	11.90	10.93	11.41	5.10	5.85	49.94		$ASL \cdot (ASF + 4 \cdot AMG) / 6$

HEADSAILS

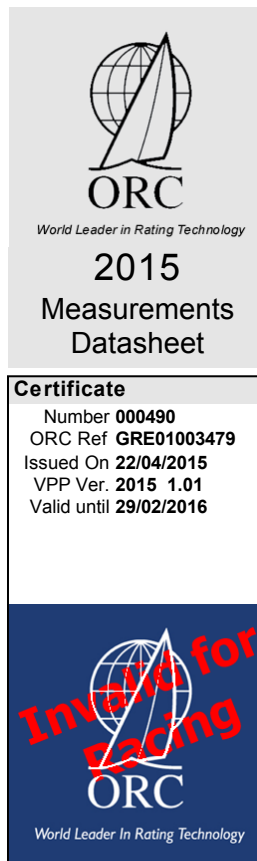
Area = 0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)

JH	JGT	JGU	JGM	JGL	LPG	JL	Area	Btn	Fly	Meas.Date	Material	Comment
0.06	0.57	1.09	2.19	3.32	4.43	11.59	25.63			10/05/2009	Pentex	

MEASUREMENT INVENTORY				
Measurer VOGIATZIS Date 19/05/2005 Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
1	Anchor	11.0	0.10	CQR
2	Anchor	10.0	9.00	DANFORD
4	Chain	35.0	0.10	25m x 8mm
2	Chain	14.0	9.00	10m x 8mm
1	Tools	10.0	6.20	
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	VOLVO	PENTA	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		
1	Deck Gear	6.0		

MEASUREMENT INVENTORY							
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG</i>	<i>Condtn Description</i>
1	Tank	Diesel	Inox	60.0	7.00		0-0
2	Tank	Water	Rubber	50.0	2.00		0-0
3	Tank	Water	Inox	100.0	7.00		0-0

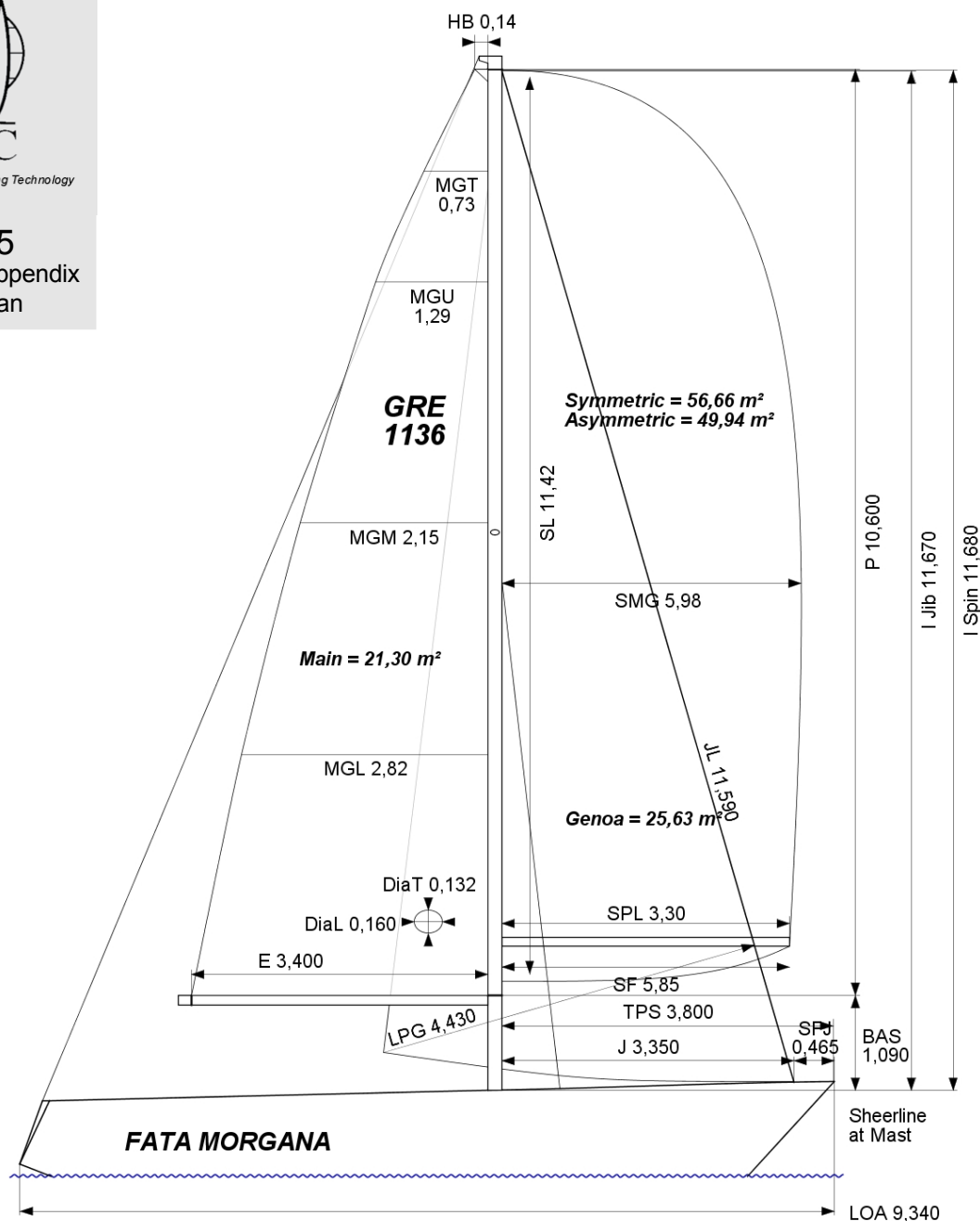
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>
1	Battery	23.0	6.20		1 x 100Ah
2	Battery	16.0	6.20		1 x 70Ah





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2015 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.145	0.73	1.29	2.15	2.82	21.30	VOGIATZIS	20/05/2010	KAKITSIS	Pentex	

HEADSAILS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.06	0.57	1.09	2.19	3.32	4.43	11.59	132%	25.63			VOGIATZI	10/05/2009	KAKITSIS	Pentex	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	11.42	5.98	5.85	56.66	VOGIATZIS	01/05/2007	KAKITSIS	Unknown	

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	11.90	10.93	11.41	5.10	5.85	49.94	asym	VOGIATZIS	13/05/2008	KAKITSIS	Nylon	