

BOAT Name ESTELLA Sail Nr GRE-6238	GPH 629.4	HULL Length Overall 12.688m Maximum Beam 4.128m Displacement 8,608kg Draft 1.792m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.341% Hull Construction Solid Carbon Rudder No Crew Arm Extension IMSL 11.074m VCGD 0.236m Sink 24.98kg/mm RL 8.229m VCGM 0.216m WS 33.65m² LSM0 10.940m Displacement/Length ratio 6.5743
GENERAL Class FIRST 42 S7 Designer BRUCE FARR Builder BENETEAU Series 11/1993 Age 10/1994 Age Allowance 0.487% Offset File ANEMOESA.OFF - 13/03/1998 08:36:00 Measurement by - 15/09/2004		



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	610.6			687.0		
Time on Time	0.9826			0.9825		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	737.2	553.1	487.7	962.8	693.4	591.7
Time on Time	0.9156	1.2204	1.3841	0.7011	0.9735	1.1408

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1113.6	912.2	799.8	736.1	710.3	699.3	700.1
52°	711.3	592.8	525.5	493.6	481.3	476.1	473.7
60°	660.6	557.8	501.9	477.4	465.8	460.8	457.6
75°	624.4	530.1	485.3	464.5	451.4	441.9	433.0
90°	630.6	530.6	482.5	460.2	445.7	432.5	411.1
110°	652.7	533.0	476.1	450.6	431.2	413.9	393.7
120°	672.8	547.8	482.6	454.1	433.6	413.6	379.8
135°	746.5	601.3	515.1	471.7	448.4	428.3	389.1
150°	885.9	695.0	584.9	514.1	473.1	450.8	412.8
Run VMG	1022.9	802.5	675.2	589.4	531.1	487.0	441.6

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Crew Weight
Default **782kg**
Maximum **782kg**
Minimum* **587kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	656.7	0.9137
Non Spin OSN	636.7	0.9423

Selected Courses							
Windward / Leeward	1068.2	857.4	737.5	662.8	620.7	593.1	570.8
Circular Random	880.3	705.0	609.6	553.8	519.6	497.9	473.4
Coastal / Long Distance	1063.7	802.4	658.7	572.1	528.0	495.9	447.0
Non Spinnaker	930.0	739.9	635.5	573.6	535.3	510.9	482.7

Sails Limitations

Headsails	Spinnakers
5	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	45.0°	43.5°	42.8°	42.6°	41.8°	41.4°	41.8°
Beat VMG	3.23	3.95	4.50	4.89	5.07	5.15	5.14
52°	5.06	6.07	6.85	7.29	7.48	7.56	7.60
60°	5.45	6.45	7.17	7.54	7.73	7.81	7.87
75°	5.77	6.79	7.42	7.75	7.98	8.15	8.31
90°	5.71	6.78	7.46	7.82	8.08	8.32	8.76
110°	5.52	6.75	7.56	7.99	8.35	8.70	9.14
120°	5.35	6.57	7.46	7.93	8.30	8.70	9.48
135°	4.82	5.99	6.99	7.63	8.03	8.41	9.25
150°	4.06	5.18	6.15	7.00	7.61	7.99	8.72
Run VMG	3.52	4.49	5.33	6.11	6.78	7.39	8.15
Gybe Angles	145.0°	149.0°	151.0°	154.0°	164.0°	180.0°	180.0°

Class Division Length
CDL = **9.645**

Storm Sails Areas

Heavy Weather Jib	32.89
Storm Jib (JL=10.15)	12.19
Storm Trysail	13.24

Owner

BOAT	
Name ESTELLA	Sail Nr GRE-6238
File GR6238	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 18/04/2017	SG 1.0285	
FFM 1.423	FF 1.420	SFFP 0.720
FAM 1.123	FA 1.125	SAFP 10.920
W1 108.7	PD1 468.6	WD 10.700
W2 108.7	PD2 470.4	GSA 1.0
W3 108.7	PD3 473.0	RSA 1.0
W4 108.7	PD4 471.0	PLM 9000.0
LCF from stem on CL / on sheer		7.024 / 7.309
Maximum beam station from stem		7.306
RM Measured		194.6kg-m
RM Default		215.3kg-m
Limit of positive stability / Stab.Index		106.9° / 109.0
Freeboard at mast at 4.702		1.255



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RIG			
Forestay Tension Aft	Runners/Checkstays 0		Spreaders 2
Inner Stay None Fitted	Jib Furler No		Main Furler No
Carbon Mast No	Fiber Rigging No		Articulated Bowsprit No
P 14.390	E 5.256	MDT1 0.120	MW 0.225
IG 15.535	J 4.272	MDL1 0.225	GO 0.245
ISP 15.665	SFJ 0.430	MDT2 0.115	BD 0.190
BAS 1.867	SPL 4.378	MDL2 0.180	MWT
FSD 0.036	TPS	TL 0.700	MCG

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Shaft exposed	PRD 0.480	
Type Feathering 3 blades	PBW 0.120	
Twin Screw No	PIPA 0.0085	
PSA 18.000	PHL 0.188	ST3 0.130 ESL 1.160
PSD 0.030	ST1 0.042	ST4 0.060
PHD 0.095	ST2 0.130	ST5 0.260

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COMMENTS	
ex "IASON".	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.17	1.14	1.95	3.27	4.35	44.33 45.24 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	
	15.58	15.58	15.58	7.85	7.77	101.71 SL · (SFL + 4·SHW) / 6
Asymmetric						
Not Available						

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
	0.75	1.50	3.06	4.65	6.25	15.25	47.20		No	18/09/2008	Pentex	
	0.03	0.73	1.47	3.02	4.60	6.19	15.25	46.55	No	06/03/2013	Unknow	

MEASUREMENT INVENTORY				
Measurer GRE-7				
Date 18/04/2017				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
5	Engine	YANMAR	4JH5E 53HP	
Id	Item	Weight Description		

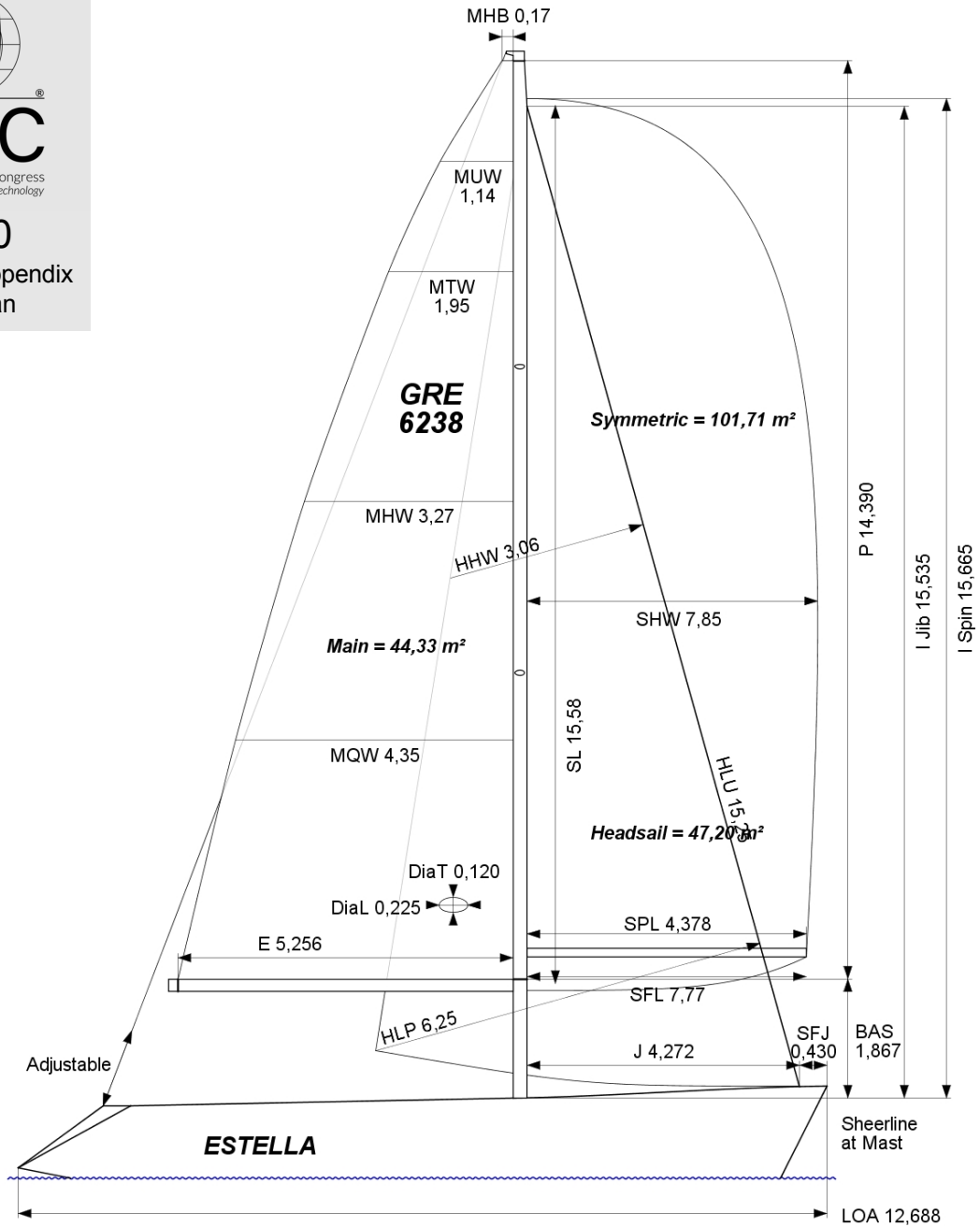
MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
6a	Tank	WATER	GRP	300.0	9.95	-0.07	0-0	
6b	Tank	WATER	GRP	300.0	3.50	-0.05	0-0	
6c	Tank	FUEL	INOX	150.0	10.20	-0.05	25-0	
Id	Item	Weight	Distance	VCG Description				
3a	Battery	60.5	9.50	-0.09 2 X 120 Ah				
3b	Battery	37.2	8.25	-0.34 1 X 135 Ah				
3c	Battery	14.0	8.15	-0.26 1 X 45 Ah				
9a	Misc	18.0	1.40	1.32 WINDLASS 1000W				
9b	Misc	16.5	7.10	-0.20 WATER HEATER				
9c	Misc	7.8	11.20	0.78 SWIMMING LADER				



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Sail Plan



SAILS INVENTORY

MAINSAIL (2)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.17	1.14	1.95	3.27	4.35	44.34		15/10/2010	KAKITSIS	Dacron	
ORC	0.15	1.09	1.92	3.26	4.33	44.04					* Copied from legacy

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1		0.75	1.50	3.06	4.65	6.25	15.25	146%	47.20		No		18/09/2008	KAKITSIS	Pentex	
2	0.03	0.73	1.47	3.02	4.60	6.19	15.25	145%	46.55		No		06/03/2013		Unknw	

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	15.58	15.58	15.58	7.85	7.77	101.72		05/07/2013		Unknown	
1	15.59	15.59	15.59	7.85	7.60	101.34		18/09/2008	KAKITSIS	Unknown	

ASYMMETRIC SPINNAKERS (0)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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