

BOAT Name FAIRYTALE Sail Nr GRE-1596	GPH 626.3	HULL Length Overall 11.913m Maximum Beam 3.844m Displacement 7,873kg Draft 2.056m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.254% Fwd Accommodation Yes Hull Construction Solid Carbon Rudder No Crew Arm Extension
GENERAL Class ELAN 40 SD FK Designer HUMPHREYS Builder ELAN Series 01/2002 Age 01/2004 Age Allowance 0.487% Offset File E40SDFIN.off - 31/07/2012 10:44:06 Measurement by VOGIATZIS - 17/07/2012		IMSL 10.655m VCGD 0.393m Sink 22.75kg/mm RL 8.397m VCGM 0.214m WS 30.88m² LSM0 10.610m Displacement/Length ratio 6.5916



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	606.9			678.7		
Time on Time	0.9886			0.9946		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	727.4	551.7	490.5	940.0	683.9	587.3
Time on Time	0.9279	1.2236	1.3762	0.7181	0.9870	1.1493

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1087.1	896.0	788.5	728.7	705.2	695.7	685.0
52°	710.3	595.6	528.3	499.3	488.1	483.6	480.1
60°	671.9	565.9	508.4	485.3	474.3	469.6	466.5
75°	643.4	543.2	495.0	473.9	461.2	452.1	443.5
90°	648.9	535.2	485.9	469.3	455.6	442.7	421.9
110°	639.9	525.2	477.0	454.6	437.0	425.6	408.3
120°	657.0	538.3	482.8	457.3	436.8	417.2	391.9
135°	723.5	587.5	508.4	472.9	451.3	430.5	390.4
150°	858.8	679.8	574.0	506.3	473.8	453.3	414.7
Run VMG	991.6	785.0	662.6	579.8	525.9	486.3	444.5

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Crew Weight

Default 749kg
Maximum **680kg**
Minimum* **510kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	660.7	0.9081
Non Spin OSN	639.0	0.9389

Selected Courses							
Windward / Leeward	1039.4	840.5	725.5	654.3	615.6	591.0	564.7
Circular Random	870.4	699.2	606.9	553.4	520.8	500.1	475.0
Coastal / Long Distance	1034.6	788.4	651.1	569.9	529.5	499.5	453.4
Non Spinnaker	932.5	743.2	639.5	578.2	540.5	516.3	487.7

Sails Limitations

Headsails	Spinnakers
5	3

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	43.2°	41.5°	41.3°	40.9°	40.2°	39.9°	39.5°
Beat VMG	3.31	4.02	4.57	4.94	5.10	5.17	5.26
52°	5.07	6.04	6.81	7.21	7.38	7.44	7.50
60°	5.36	6.36	7.08	7.42	7.59	7.67	7.72
75°	5.60	6.63	7.27	7.60	7.81	7.96	8.12
90°	5.55	6.73	7.41	7.67	7.90	8.13	8.53
110°	5.63	6.85	7.55	7.92	8.24	8.46	8.82
120°	5.48	6.69	7.46	7.87	8.24	8.63	9.19
135°	4.98	6.13	7.08	7.61	7.98	8.36	9.22
150°	4.19	5.30	6.27	7.11	7.60	7.94	8.68
Run VMG	3.63	4.59	5.43	6.21	6.85	7.40	8.10
Gybe Angles	145.0°	149.6°	150.4°	155.1°	169.4°	180.0°	180.0°

Class Division Length

CDL = **9.527**

Storm Sails Areas


Heavy Weather Jib **30.17**
Storm Jib (JL=9.72) **11.17**
Storm Trysail **13.30**

Owner

BOAT	
Name FAIRYTALE	Sail Nr GRE-1596
File GR1596	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 04/05/2014		SG 1.0220	
FFM 1.449	FF 1.450	SFFP 0.609	
FAM 1.018	FA 1.019	SAFP 11.257	
W1 93.0	PD1 258.0	WD 12.130	
W2 93.0	PD2 258.0	GSA 50.0	
W3 93.0	PD3 258.0	RSA 5542.0	
W4 93.0	PD4 258.0	PLM 2026.0	
LCF from stem on CL / on sheer		6.626 / 6.889	
Maximum beam station from stem		6.868	
RM Measured		153.6kg-m	
RM Default		174.8kg-m	
Limit of positive stability / Stab.Index		106.1° / 109.3	
Freeboard at mast at 4.301		1.200	

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 14.056	E 5.405	MDT1 0.130	MW 0.231
IG 14.837	J 4.301	MDL1 0.234	GO 0.263
ISP 15.152	SFJ 0.000	MDT2 0.130	BD 0.252
BAS 1.632	SPL 4.474	MDL2 0.197	MWT 183.00
FSP 0.084	TPS	TL 1.100	MCG 5.781




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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.415		
Type Folding 2 blades	PBW 0.107		
Twin Screw No	PIPA 0.0039		
ST1 0.065	ST3 0.180	ST5 0.300	
ST2 0.180	ST4 0.110	EDL 2.953	

COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.178	1.13	2.03	3.49	4.55	45.24	46.35	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	104.31		SL · (SFL + 4·SHW) / 6	
	15.02	15.02	15.02	8.42	7.99				
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	Fly	Meas.Date	Material	Comment
0.11	0.76	1.39	2.48	3.51	4.55	14.48	34.95	Y		20/07/2018	Carbon	Jib Light
0.08	0.66	1.26	2.42	3.55	4.58	14.45	34.37	Y		09/06/2017	Polyest	Jib Top
0.09	0.67	1.28	2.38	3.45	4.52	14.55	34.09	Y		06/03/2014	Carbon	Jib #2
0.09	0.70	1.32	2.48	3.60	4.63	13.91	33.76	Y		17/07/2012	Pentex	Roller Jib
0.09	0.60	1.14	2.25	3.36	4.43	14.50	32.58	Y		06/03/2014	Carbon	Jib #3
0.06	0.48	0.94	1.91	2.96	4.13	12.10	23.99	Y		06/03/2014	Pentex	HW Jib #4

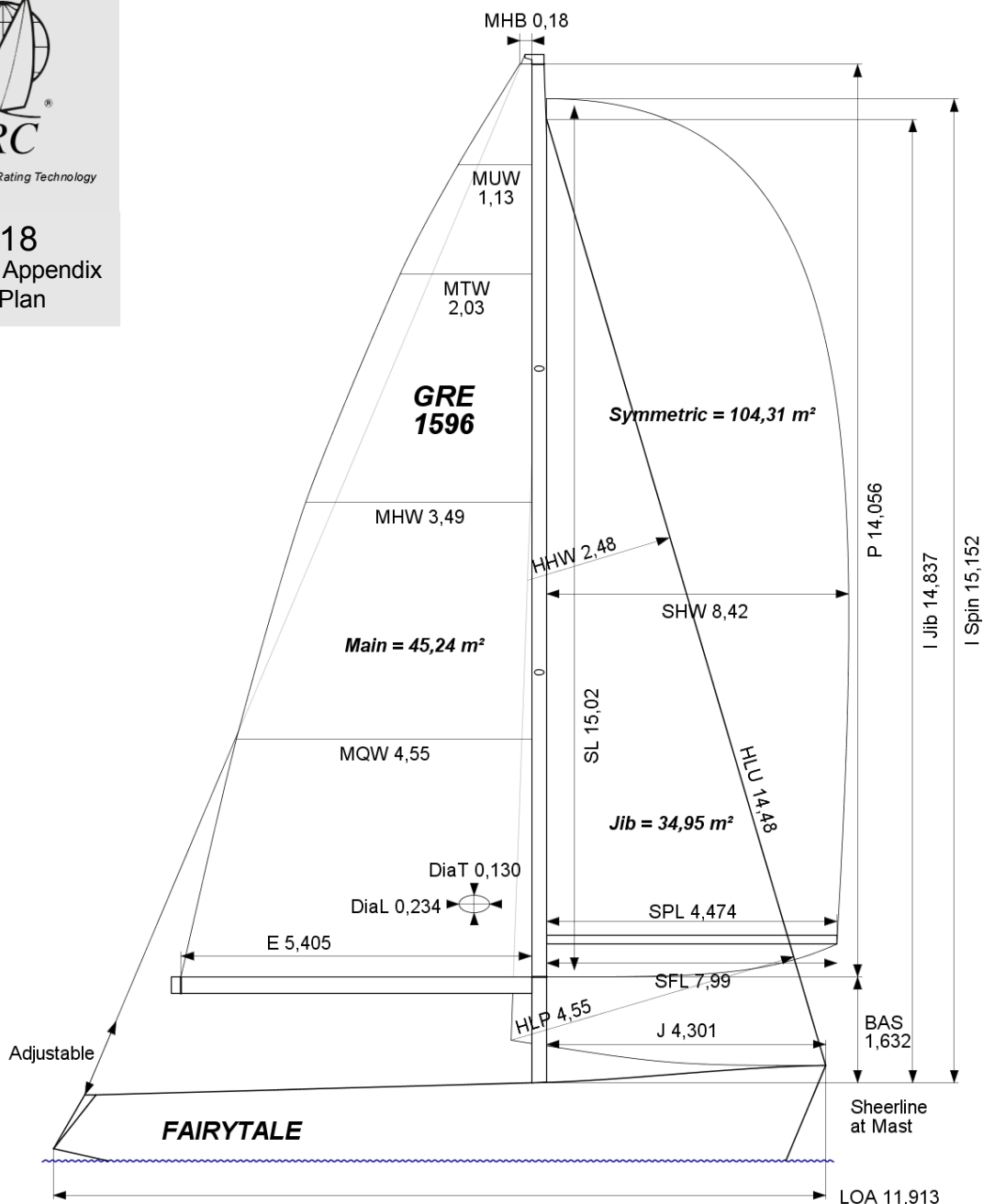
MEASUREMENT INVENTORY				
Measurer VOGIATZIS GRE-17				
Date 04/05/2014				
Comment				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	VOLVO	Volvo Penta	
Id	Item	Weight Description		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	Water	Inox	85.0	5.60	-0.20	0-0	
2	Tank	Water	Inox	150.0	5.60	-0.20	0-0	
3	Tank	Diesel	Inox	150.0	9.30	-0.20	0-0	
Id	Item	Weight	Distance	VCG Description				
1	Battery	70.0	9.30	-0.20 2 X 140 Ah				
2	Battery	25.0	9.30	-0.20 1 X 95 Ah				
1	Misc	15.0	1.00	1.30 Windlass				



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Sail Plan



SAILS INVENTORY

MAINSAIL (2)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
3	0.178	1.13	2.03	3.49	4.55	45.24	VOGIATZIS	14/03/2017	Quantum	Polyester	Heavy
2	0.170	1.13	2.02	3.48	4.55	45.17	VOGIATZIS	06/03/2014	Quantum	Carbon	

HEADSAILS (6)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.11	0.76	1.39	2.48	3.51	4.55	14.48	106%	34.95	Y		VOGIATZI	20/07/2018	Quantum	Carbon	Jib Light
6	0.08	0.66	1.26	2.42	3.55	4.58	14.45	106%	34.37	Y		VOGIATZI	09/06/2017	Quantum	Polyest	Jib Top
2	0.09	0.67	1.28	2.38	3.45	4.52	14.55	105%	34.09	Y		VOGIATZI	06/03/2014	Quantum	Carbon	Jib #2
1	0.09	0.70	1.32	2.48	3.60	4.63	13.91	108%	33.76	Y		VOGIATZI	17/07/2012	Quantum	Pentex	Roller Jib
3	0.09	0.60	1.14	2.25	3.36	4.43	14.50	103%	32.58	Y		VOGIATZI	06/03/2014	Quantum	Carbon	Jib #3
4	0.06	0.48	0.94	1.91	2.96	4.13	12.10	96%	23.99	Y		VOGIATZI	06/03/2014	Quantum	Pentex	HW Jib #4

SYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
4	15.02	15.02	15.02	8.42	7.99	104.31	VOGIATZIS	20/07/2018	Quantum	Nylon	Runner Light
2	14.99	14.99	14.99	8.18	7.86	101.38	VOGIATZIS	14/03/2017	Quantum	Nylon	Reacher light
1	14.98	14.96	14.97	8.16	7.84	101.00	VOGIATZIS	14/03/2017	Quantum	Nylon	Runner
3	15.05	15.05	15.05	7.71	7.56	96.32	VOGIATZIS	21/05/2013	Quantum	Nylon	Heavy

ASYMMETRIC SPINNAKERS (0)

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