


BOAT Name BANA BIOLETTA 4 Sail Nr GRE-48	GPH 535.5	HULL Length Overall 12.490m Maximum Beam 3.964m Displacement 5,846kg Draft 2.576m Plan Review IMS Reg. Division Performance Dynamic Allowance 0.000% Hull Construction Light Carbon Rudder Yes Crew Arm Extension
GENERAL Class ILC 40 Designer B. FARR Builder COOKSON Series 05/1995 Age 05/1995 Age Allowance 0.487% Offset File ATALNT92.OFF - 18/06/1996 13:40:00 Measurement by - 26/04/2001		IMSL 11.119m VCGD -0.619m Sink 21.70kg/mm RL 11.241m VCGM -0.320m WS 29.35m² LSM0 10.845m Displacement/Length ratio 4.5832



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	523.2			586.4		
Time on Time	1.1468			1.1512		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	596.7	480.3	429.1	768.1	590.1	520.5
Time on Time	1.1313	1.4053	1.5729	0.8788	1.1438	1.2968

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	840.0	701.2	651.5	629.8	618.7	611.2	604.1
52°	554.0	479.3	459.1	450.6	445.8	443.1	434.7
60°	524.8	465.5	446.4	437.1	431.2	427.2	417.0
75°	504.3	456.2	433.1	416.4	406.7	400.4	393.9
90°	508.6	457.4	431.7	408.2	389.8	377.4	364.7
110°	539.3	460.2	427.0	404.5	387.2	372.6	340.4
120°	556.2	466.5	430.8	398.9	374.1	357.7	326.9
135°	619.0	500.5	451.4	420.6	389.6	359.1	299.6
150°	736.6	589.4	500.5	454.4	425.3	396.5	339.5
Run VMG	850.6	680.6	578.0	516.2	474.7	442.6	389.2

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Crew Weight
Default **773kg**
Maximum **870kg**
Minimum* **653kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	562.5	1.0667
Non Spin OSN	550.8	1.0894

Selected Courses							
Windward / Leeward	845.3	690.9	614.7	573.0	546.7	526.9	496.7
Circular Random	722.5	590.2	520.8	480.8	455.3	436.9	409.4
Coastal / Long Distance	845.8	651.7	557.1	500.8	467.4	439.6	392.2
Non Spinnaker	770.8	624.5	546.3	500.4	471.2	450.8	421.8

Sails Limitations

Headsails	Spinnakers
6	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	42.0°	40.5°	39.0°	37.9°	37.1°	36.8°	36.9°
Beat VMG	4.29	5.13	5.53	5.72	5.82	5.89	5.96
52°	6.50	7.51	7.84	7.99	8.08	8.13	8.28
60°	6.86	7.73	8.06	8.24	8.35	8.43	8.63
75°	7.14	7.89	8.31	8.65	8.85	8.99	9.14
90°	7.08	7.87	8.34	8.82	9.24	9.54	9.87
110°	6.68	7.82	8.43	8.90	9.30	9.66	10.58
120°	6.47	7.72	8.36	9.03	9.62	10.06	11.01
135°	5.82	7.19	7.98	8.56	9.24	10.02	12.01
150°	4.89	6.11	7.19	7.92	8.46	9.08	10.60
Run VMG	4.23	5.29	6.23	6.97	7.58	8.13	9.25
Gybe Angles	142.0°	143.0°	150.0°	157.0°	172.0°	180.0°	180.0°

Class Division Length
CDL = **11.174**

Storm Sails Areas

Heavy Weather Jib	36.07
Storm Jib (JL=10.63)	13.36
Storm Trysail	19.06

Owner

BOAT
Name BANA BIOLETTA 4 Sail Nr GRE-48
File GR48 Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 16/03/2014	SG 1.0280	
FFM 1.368	FF 1.367	SFFP 0.038
FAM 1.092	FA 1.091	SAFP 11.941
W1 113.8	PD1 580.5	WD 12.180
W2 113.8	PD2 581.7	GSA 1.0
W3 113.8	PD3 581.7	RSA 1.0
W4 113.8	PD4 581.4	PLM 9000.0
LCF from stem on CL / on sheer		6.807 / 7.051
Maximum beam station from stem		7.684
RM Measured		187.8kg-m
RM Default		182.6kg-m
Limit of positive stability / Stab.Index		130.3° / 128.0
Freeboard at mast at 4.570		1.177



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RIG			
Forestay Tension Aft	Runners/Checkstays 2		Spreaders 3
Inner Stay None Fitted	Jib Furler No		Main Furler No
Carbon Mast No	Fiber Rigging No		Articulated Bowsprit No
Non-Circular Rigging No			
P 17.560	E 6.200	MDT1 0.120	MW 0.240
IG 16.310	J 4.570	MDL1 0.240	GO 0.250
ISP 17.670	SFJ 0.000	MDT2 0.073	BD 0.278
BAS 1.867	SPL 5.230	MDL2 0.089	MWT 223.80
FSD 0.033	TPS	TL 3.020	MCG 5.620

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.410	
Type Folding 2 blades	PBW 0.110	
Twin Screw No	PIPA 0.0035	
ST1 0.042	ST3 0.181	ST5 0.270
ST2 0.181	ST4 0.114	EDL 0.680

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COMMENTS	
ex "ATALANTI IX"	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	Area Area (r) Formula
	0.22	1.36	2.36	3.96	5.20	64.82 66.17 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	
	17.81	17.81	17.81	9.35	9.13	138.12 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
0.08	0.72	1.43	2.96	4.57	6.23	15.97	48.45		No	27/07/2020	Polyest	#51
0.06	0.70	1.26	2.39	3.48	4.45	16.20	37.89	Y	No	09/07/2019	Kevlar	J1

MEASUREMENT INVENTORY				
Measurer GRE-21				
Date 16/03/2014				
Comment				
Internal Ballast total = 404.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YANMAR	GM30 (27	
Id	Item	Weight Description		

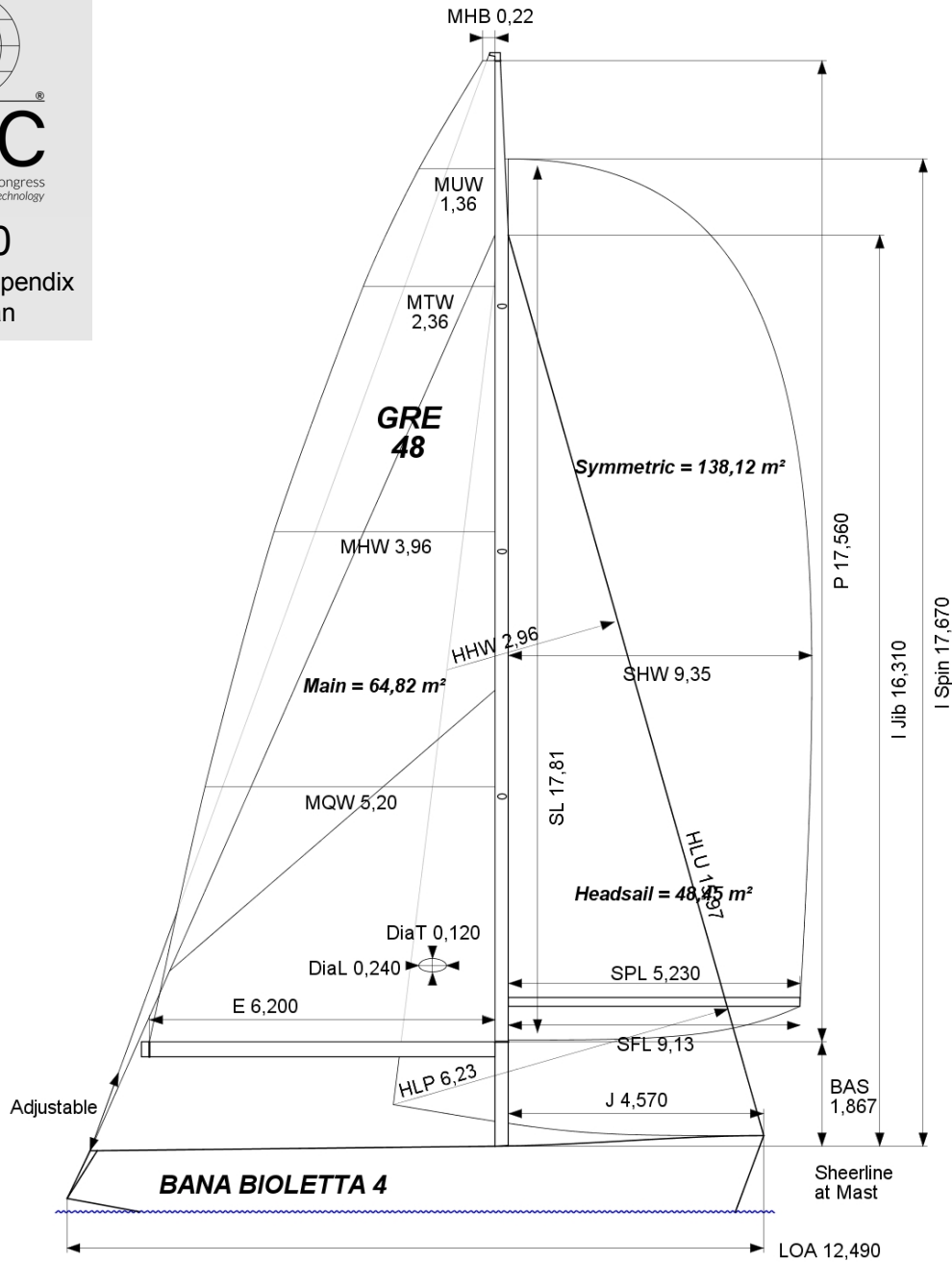
MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG Condtn Description
1	Tank	FUEL	INOX	70.0	8.50	0-0 (C)
2	Tank	WATER	Soft PVC bag	100.0	5.90	0-0 (P)
3	Tank	WATER	Soft PCV bag	100.0	5.90	0-0 (S)
Id	Item	Weight	Distance	VCG Description		
1	Ballast	132.0	6.80	Lead pigs 5 x 25-28 kg approx. each (P)		
2	Ballast	132.0	6.80	Lead pigs 5 x 25-28 kg approx. each (S)		
3	Ballast	70.0	6.30	Lead pigs 2 x 30 kg + 1 x 10 kg (P)		
4	Ballast	70.0	6.30	Lead pigs 2 x 30 kg + 1 x 10 kg (S)		
1	Battery		7.10	2 x 110 Ah (C)		
2	Battery		6.90	1 x 80 Ah (C)		



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Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
#11	0.22	1.36	2.36	3.96	5.20	64.82		21/03/2015	QUANTUM	Polyester	#11

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
#51	0.08	0.72	1.43	2.96	4.57	6.23	15.97	136%	48.45		No		27/07/2020	KAKITSIS	Polyest	#51
J1	0.06	0.70	1.26	2.39	3.48	4.45	16.20	97%	37.89	Y	No		09/07/2019	ARROW	Kevlar	J1

SYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
DB	17.81	17.81	17.81	9.35	9.13	138.12		27/07/2020	ARROW	Nylon	DARK BLUE
RE	17.34	17.34	17.34	9.59	9.16	137.34		27/07/2020	ARROW	Nylon	WHITE 0.5
#72	17.20	17.20	17.20	9.30	9.18	132.96		27/07/2020	ARROW	Nylon	VIOLET 0.85
#75	16.10	16.10	16.10	8.46	8.32	113.13		02/07/2013	NORTH	Nylon	REACHER

ASYMMETRIC SPINNAKERS (0)

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