BOAT

Name **BANA BIOLETTA 3**
Sail Nr **GRE-1212**

GPH

540.1

GENERAL

Class	**ILC 40**
Designer	**FARR**
Builder	**COOKSON**
Series	**03/1993**
Age	**03/1993**
Age Allow ance	**0.487%**
Offset File	**OZ96MOD.OFF - 11/06/2010 13:41:28**
Measurement by	**- 05/07/2006**

HULL

Length Overall	**12.500m**
Maximum Beam	**3.950m**
Displacement	**6,001kg**
Draft	**2.600m**
Plan Review	
IMS Reg. Division	**Performance**
Dynamic Allow ance	**0.000%**
Hull Construction	**Light**
Carbon Rudder	**Yes**
Crew Arm Extension	

IMSL	**11.090m**	VCGD	**-0.275m**	Sink	**22.09kg/mm**
RL	**11.183m**	VCGM	**-0.228m**	WS	**29.40m²**
LSM0	**10.742m**	Displacement/Length ratio			**4.8414**

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SCORING OPTIONS

	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	**527.8**			**590.1**		
Time on Time	**1.1368**			**1.1438**		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	**601.5**	**484.4**	**434.0**	**774.3**	**593.8**	**523.2**
Time on Time	**1.1222**	**1.3934**	**1.5554**	**0.8718**	**1.1368**	**1.2902**

Rating Office

Hellenic Sailing Federation Offshore Committee
Επιτροπή Ανοικτής Θαλάσσης Ελληνικής Ιστιοπλοϊκής Ομοσπονδίας

TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	**843.0**	**703.7**	**653.2**	**631.4**	**620.0**	**613.3**	**604.4**
52°	**556.7**	**481.9**	**462.2**	**453.8**	**449.0**	**446.4**	**438.2**
60°	**527.9**	**468.4**	**450.1**	**441.2**	**435.6**	**431.6**	**422.0**
75°	**508.0**	**459.2**	**437.3**	**422.2**	**413.0**	**406.8**	**400.1**
90°	**512.7**	**460.5**	**435.5**	**413.8**	**396.6**	**385.0**	**372.9**
110°	**546.5**	**464.5**	**432.0**	**409.9**	**393.4**	**379.5**	**350.1**
120°	**563.1**	**471.1**	**435.5**	**405.1**	**380.3**	**364.5**	**335.4**
135°	**625.9**	**506.5**	**455.4**	**425.1**	**395.0**	**365.9**	**308.1**
150°	**744.2**	**598.4**	**506.8**	**457.7**	**429.4**	**401.4**	**346.9**
Run VMG	**859.4**	**690.9**	**585.2**	**520.5**	**478.3**	**446.1**	**394.3**
Selected Courses							
Windward / Leeward	**851.2**	**697.3**	**619.2**	**576.0**	**549.1**	**529.7**	**499.3**
Circular Random	**728.3**	**595.1**	**525.3**	**485.2**	**459.8**	**441.7**	**414.7**
Coastal / Long Distance	**852.0**	**657.8**	**561.5**	**504.5**	**471.5**	**444.5**	**398.5**
Non Spinnaker	**774.7**	**628.1**	**549.8**	**504.0**	**475.1**	**454.9**	**426.3**

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	**42.0°**	**40.5°**	**38.3°**	**37.5°**	**36.8°**	**36.6°**	**36.6°**
Beat VMG	**4.27**	**5.12**	**5.51**	**5.70**	**5.81**	**5.87**	**5.96**
52°	**6.47**	**7.47**	**7.79**	**7.93**	**8.02**	**8.06**	**8.21**
60°	**6.82**	**7.69**	**8.00**	**8.16**	**8.27**	**8.34**	**8.53**
75°	**7.09**	**7.84**	**8.23**	**8.53**	**8.72**	**8.85**	**9.00**
90°	**7.02**	**7.82**	**8.27**	**8.70**	**9.08**	**9.35**	**9.65**
110°	**6.59**	**7.75**	**8.33**	**8.78**	**9.15**	**9.49**	**10.28**
120°	**6.39**	**7.64**	**8.27**	**8.89**	**9.47**	**9.88**	**10.73**
135°	**5.75**	**7.11**	**7.91**	**8.47**	**9.11**	**9.84**	**11.69**
150°	**4.84**	**6.02**	**7.10**	**7.86**	**8.38**	**8.97**	**10.38**
Run VMG	**4.19**	**5.21**	**6.15**	**6.92**	**7.53**	**8.07**	**9.13**
Gybe Angles	**142.5°**	**141.5°**	**149.0°**	**156.0°**	**172.0°**	**180.0°**	**180.0°**

Certificate

Number	**00669**
ORC Ref	**03420000PNE**
Issued On	**03/09/2020**
VPP Ver.	**2020 1.02**
Valid until	**28/02/2021**

Crew Weight

Default	762kg
Maximum	**795kg**
Minimum*	**596kg**

**when applied by the NoR and SI*

Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	**566.1**	**1.0599**
Non Spin OSN	**554.1**	**1.0827**

Sails Limitations

Headsails	Spinnakers
6	**4**

Class Division Length

CDL = **11.131**

Storm Sails Areas

Heavy Weather Jib	**33.33**
Storm Jib (JL=10.22)	**12.35**
Storm Trysail	**17.99**

Owner

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BOAT

Name	**BANA BIOLETTA 3**	Sail Nr	**GRE-1212**
File	**GR1212**	Data in	**meters/kilograms**

RIG

Forestay Tension	**Aft**	Spreaders	**3**
Inner Stay	**None Fitted**	Runners/Checkstays	**2**
Carbon Mast	**No**	Jib Furler	**No**
Fiber Rigging	**No**	Main Furler	**No**
Non-Circular Rigging	**No**		
Articulated Bowsprit	**No**		

P	**16.990**	E	**6.050**	MDT1	**0.100**	MW	**0.095**
IG	**15.625**	J	**4.560**	MDL1	**0.200**	GO	**0.120**
ISP	**16.970**	SFJ		MDT2	**0.065**	BD	**0.250**
BAS	**1.915**	SPL	**5.080**	MDL2	**0.095**	MWT	**238.70**
FSD	**0.032**	TPS		TL	**3.275**	MCG	**5.370**

INCLINING TEST AND FREEBOARDS

Inclining Test **Current Inclining**

Flotation date **05/02/2014** SG **1.0300**

FFM	**1.394**	FF	**1.393**	SFFP	**0.028**
FAM	**1.069**	FA	**1.069**	SAFP	**11.965**
W1	**113.2**	PD1	**579.7**	WD	**12.470**
W2	**113.2**	PD2	**580.1**	GSA	**1.0**
W3	**113.2**	PD3	**581.4**	RSA	**1.0**
W4	**113.2**	PD4	**583.3**	PLM	**9000.0**

LCF from stem on CL / on sheer	**6.949 / 7.208**
Maximum beam station from stem	**7.587**
RM Measured	**191.3kg·m**
RM Default	**186.5kg·m**
Limit of positive stability / Stab.Index	**126.3° / 124.6**
Freeboard at mast at 4.560	**1.183**

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MIZZEN RIG AND SAILS

N/A

PROPELLER

Installation	**Strut**	PRD	**0.435**
Type	**Folding 2 blades**	PBW	**0.101**
Twin Screw	**No**	PIPA	**0.0036**

ST1	**0.048**	ST3	**0.180**	ST5	**0.255**
ST2	**0.170**	ST4	**0.110**	EDL	**1.210**

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COMMENTS

ex "SIDHARTA", ex "NO MERCY", ex "ONLY THE BRAVE"

MOVABLE BALLAST

N/A

CENTERBOARD

N/A

SAILS (Maximum Areas)

Mainsail	**MHB**	**MUW**	**MTW**	**MHW**	**MQW**	**Area**	**Area (r)**	**Formula**
	0.25	1.35	2.35	4.04	5.20	62.71	64.20	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	**SLU**	**SLE**	**SL**	**SHW**	**SFL**			
	17.35	17.35	17.35	9.65	9.20	138.22		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	0.80	1.56	3.15	4.78	6.47	15.90	50.78		No	27/07/2020	Carbon	LIGHT 3Di
0.08	0.74	1.47	3.02	4.69	6.46	15.92	49.68		No	31/07/2020	Carbon	HEAVY 3Di
0.10	0.77	1.49	3.00	4.59	6.37	15.69	48.43		No	02/05/2019	Carbon	
0.12	0.58	1.08	2.14	3.25	4.36	15.85	34.49		No	14/07/2014	Carbon	

MEASUREMENT INVENTORY

Measurer **GRE-21**
Date **05/02/2014**
Comment
Internal Ballast total = 870.0

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*

Id	*Item*	*Maker*	*Model*
5	Engine	VOLVO PENTA	

Id	*Item*	*Weight*	*Description*

MEASUREMENT INVENTORY

Id	*Item*	*Tank Use*	*Tank Type*	*Capcty*	*Dist.*	*VCG*	*Condtn*	*Description*
6a	Tank	FUEL	INOX	40.0	7.20		~~15.0~~	
6b	Tank	WATER FR.	BLADDER	60.0	7.60		~~0.0~~	
6c	Tank	WATER FR.	BLADDER	60.0	7.60		~~0.0~~	

Id	*Item*	*Weight*	*Distance*	*VCG*	*Description*
1a	Ballast	410.0	7.70		15 LEAD BARS STRBD
1b	Ballast	410.0	7.70		15 LEAD BARS PORT
1c	Ballast	50.0	11.20		2 LEAD BARS CENTER
3a	Battery	25.0	8.20		
3b	Battery	35.0	6.70		
3c	Battery	35.0	6.70		

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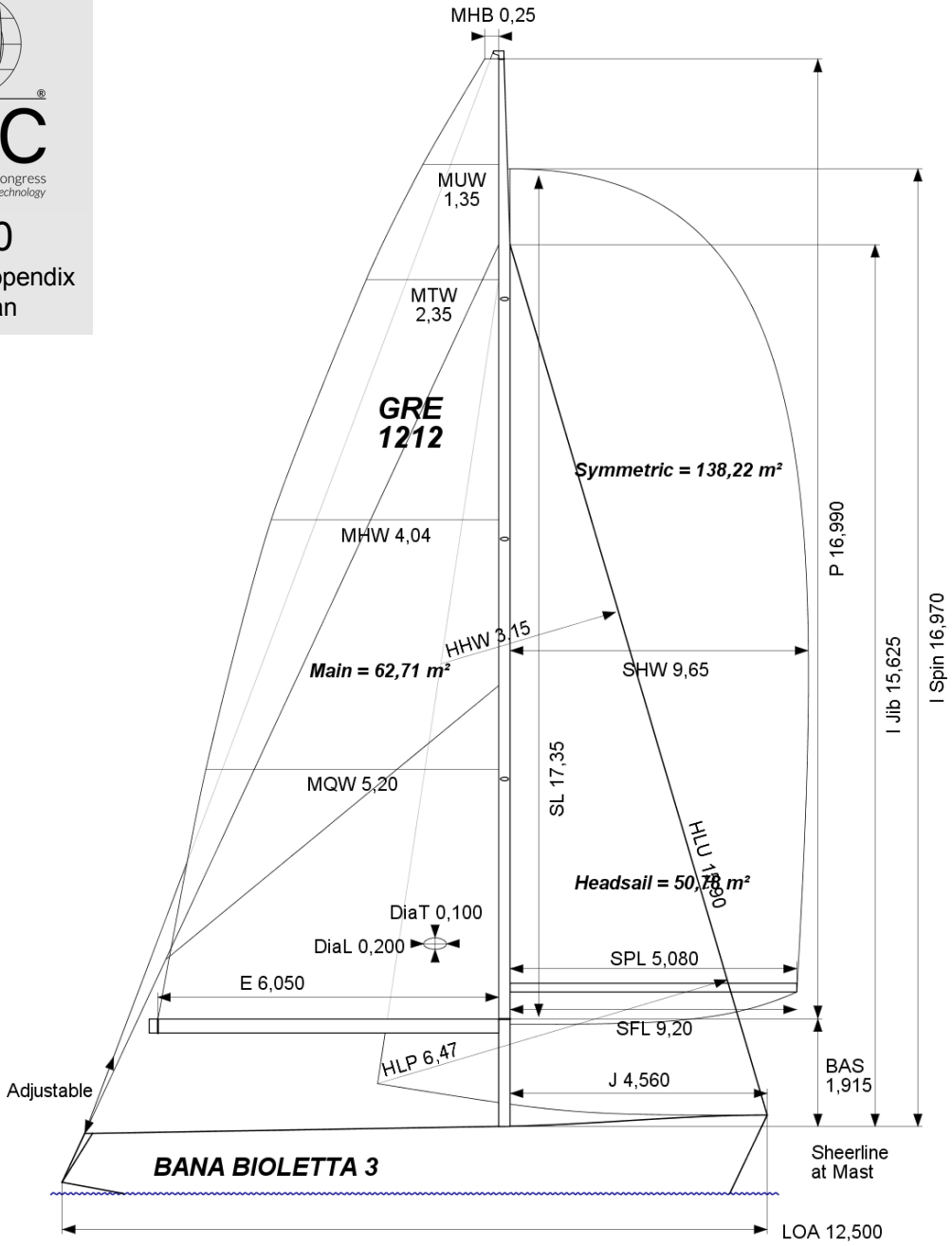
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
M2	0.25	1.35	2.35	4.04	5.20	62.72		02/05/2019	QUANTUM	Carbon	

HEADSAILS (4)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.08	0.80	1.56	3.15	4.78	6.47	15.90	142%	50.78		No		27/07/2020	NORTH	Carbon	LIGHT 3Di
2	0.08	0.74	1.47	3.02	4.69	6.46	15.92	142%	49.68		No		31/07/2020	NORTH	Carbon	HEAVY 3Di
HEAV	0.10	0.77	1.49	3.00	4.59	6.37	15.69	140%	48.43		No		02/05/2019	QUANTUM	Carbon	
No3	0.12	0.58	1.08	2.14	3.25	4.36	15.85	96%	34.49		No		14/07/2014	QUANTUM	Carbon	

SYMMETRIC SPINNAKERS (4)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
S2	17.35	17.35	17.35	9.65	9.20	138.23		02/05/2019	ARROW	Nylon	0,5 RED
S1	17.33	17.33	17.33	9.65	9.20	138.07		20/06/2016	NORTH	Nylon	0.6
S4	17.07	17.10	17.09	9.70	9.50	137.54		20/06/2016	NORTH	Nylon	0.75
S3	16.50	16.50	16.50	9.28	9.50	128.21		11/08/2014	NORTH	Nylon	0.85

ASYMMETRIC SPINNAKERS (0)

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

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