



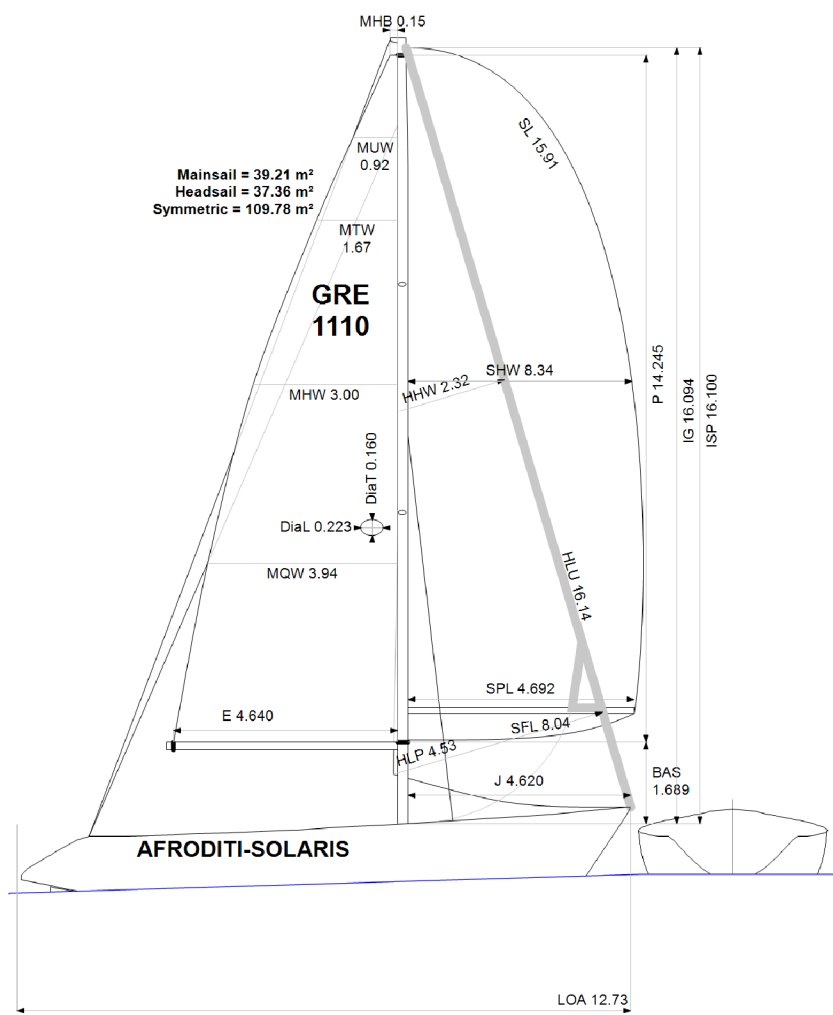
Club Certificate
2025

AFRODITI-
SOLARIS
GRE-1110

Hellenic Sailing Federation
Offshore Committee
Επιτροπή Ανοικτής Θαλάσσης
Ελληνικής Ισομετρικής
Ομοσπονδίας



APH ToD: **572.3** CDL: **9.397**
APH ToT: **1.0483** CertNo: **00029**



BOAT	
Class	BIANCA 420
Designer	JOUBERT/NIVELT
Builder	
Age date	01/1989
Series date	01/1987
Offset file	BIANC420.OFF
Data file	GR1110
HULL	
Length Overall	12.730 m
Maximum Beam	3.918 m
Draft	2.133 m
Displacement	9,039 kg
DLR	7.5932
IMS Division	Cruiser/Racer
Dynamic Allowance	0.370%
Age Allowance	0.487%
PROPELLER	
Installation	Shaft exposed
Type	Solid 2 blades
Diameter	0.477m
CREW	
Maximum weight	748 kg (default)
Minimum weight	618 kg * when applied
Non Manual Power	No
Crew Arm Extension	
SAIL AREAS (m²)	
Mainsail	Measured 39.21 Rated 39.87
Headsail Luffed	37.36 37.36
Headsail Flying	
Symmetric	109.78 109.78
Asymmetric	
STORM SAIL AREAS (m²)	
Trysail	11.57
Storm Jib	13.13
Heavy Weather Jib	35.43
SAIL LIMITS	
Headsails	5 * One set on the forestay
Spinnakers	4 * Woven polyester sails
STABILITY	
Righting Moment	N/A
Stability Index	N/A

The owner and any other person in charge is responsible that boat is complying with her certificate in accordance with RRS 78.1 and ORC Rule 304.

ORC Ref 03420003SUJ Issued on 29/05/2025 Valid until 31/12/2025

VPP ver: 2025 1.01 | © ORC | www.orc.org



Club Certificate
2025

AFRODITI-
SOLARIS
GRE-1110

Hellenic Sailing Federation
Offshore Committee
Επιτροπή Ανοικτής Θαλάσσης
Ελληνικής Ισομετρικής
Ομοσπονδίας



Time Allowances in secs/NM												
Wind Velocity	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt			
Beat VMG	1673.2	1179.6	943.5	821.1	748.3	708.6	691.4	679.9	683.5			
52°	1047.8	758.9	623.6	552.5	512.7	493.0	483.1	476.1	474.7			
60°	973.4	713.5	593.5	530.3	497.2	479.6	469.8	462.0	459.2			
75°	937.6	688.6	574.1	514.7	485.0	467.6	456.1	442.4	436.3			
90°	958.3	690.9	565.5	502.9	475.0	462.9	451.9	431.7	418.7			
110°	943.1	675.8	550.7	491.1	462.9	444.9	431.0	414.4	403.1			
120°	982.7	701.2	567.3	498.8	466.1	445.4	428.7	401.3	384.4			
135°	1117.5	783.5	620.7	531.0	483.5	457.3	437.9	404.2	370.9			
150°	1352.7	922.1	710.8	593.8	521.7	481.3	457.3	422.0	389.6			
Run VMG	1561.3	1064.7	820.8	684.4	596.7	538.0	498.9	452.3	420.6			
Selected Courses												
Windward / Leeward	1616.6	1122.2	882.2	752.8	672.5	623.3	595.1	566.1	552.0			
All purpose	1217.7	860.1	688.3	597.7	546.2	516.6	498.9	477.9	465.0			

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	709.1	0.8461
All purpose	572.3	1.0483

Custom scoring options for Greece

Scoring Option	Time On Distance	Time On Time
Coastal/Long Distance	625.1	0.9599
Triple Number Coastal/Long Distance Low	774.2	0.7750
Triple Number Coastal/Long Distance Medium	567.8	1.0567
Triple Number Coastal/Long Distance High	495.5	1.2110
Triple Number Windward/Leeward Low	1002.2	0.5987
Triple Number Windward/Leeward Medium	704.4	0.8518
Triple Number Windward/Leeward High	591.3	1.0147

Performance Curve	4 kt	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Coastal/Long Distance	1712.2	1116.4	827.6	675.6	584.2	536.4	504.2	457.6	444.0

AUS AUT BRA BUL CAN CYP DEN ESP EST FIN FRA GER GRE HUN ISR
JPN KOR LTU NED NOR POR RSA RUS SLO SUI SWE UKR USA

ORC Ref 03420003SUJ Issued on 29/05/2025 Valid until 31/12/2025

VPP ver: 2025 1.01 | © ORC | www.orc.org



Club Certificate
2025

AFRODITI-
SOLARIS
GRE-1110

Hellenic Sailing Federation
Offshore Committee
Επιτροπή Ανοικτής Θαλάσσης
Ελληνικής Ισομετρικής
Ομοσπονδίας



HULL AND APPENDAGES (Lightship Trim)						Data in meters/kilograms (Metric)					
Class	BIANCA 420	LOA	12.730	VCGD	-0.091						
Measurement	01/06/2005	Max. Beam	3.918	VCGM	0.007						
HIN		Draft	2.133	RM Rated (kg-m)	200.2						
Plan review		Displacement	9,039	Limit of positive stability(*)	N/A						
Hull construction	Solid	Wetted area	32.54	Stability Index	N/A						
Carbon rudder	No	IMS L	10.829	Default crew weight	748						
Light stanchions	No	LSM0	10.597	Declared crew weight	N/A						
Trim tab	No	Acc. length	12.730								
		Sink (kg/mm)	23.86								

PROPELLER											
Propeller Type	Solid 2 blades										
Installation	Shaft exposed	PRD	0.477	PSD	0.030	PSA	20.9°	ST1	0.046	ST4	0.051
Twin screw	No	PBW	0.141	PHD	0.057	ESL	1.150	ST2	0.096	ST5	0.310
Hydro generator	No	PIPA	0.0264	PHL	0.081			ST3	0.096		
RIG											
Forestay tension	Fixed	P	14.245	E	4.640						
Inner stay	Fixed	IG	16.094	J	4.620						
Mast material	Aluminum	ISP	16.100	BAS	1.689						
Single headsail furler	Yes	MDT1	0.160	FSD	0.040						
Mainsail furler	No	MDL1	0.223	SFJ	0.000						
Articulated bowsprit	No	MDT2	0.155	SPL	4.692						
Non-circular rigging	No	MDL2	0.180	WPL							
Fiber rigging	No	TL	2.340	TFS							
Adjustable mast foot	No	MW	0.180	BD	0.164						
Running backstays	1	GO	0.210	MWT	299.50						
Checkstays	0			MCG	3.501						
Spreaders	2										
Rotating mast	No										

FLOTATION AND STABILITY			
Calculation method	RM estimated		
Flotation Date	04/05/2017		
Measurer	GRE-21		

INVENTORY						
TANKS						
Id	Description	Sp.Wght	Capacity	Condition	LCG	VCG
1	Fuel St. Steel	Fuel	140	40	10.00	
2	Water St. Steel	Water	220	0	5.50	
3	Water St. Steel	Water	180	0	5.50	
3	Hold. Tank St. Steel	Water	100	0	9.60	
					Total deductible	34 10.00
OTHER ITEMS						
Id	Kind	Description	Weight	LCG	VCG	
1	Miscellaneous	Boiler 20lt	30	9.80		
3	Miscellaneous	Stem Ladder		12.70		
1	Battery	1 x 60Ah		6.90		
2	Battery	4 x 120Ah		9.80		
1	Engine	YANMAR 4JHE (44HP)				
					Total deductible	0

ORC Ref 03420003SUJ Issued on 29/05/2025 Valid until 31/12/2025

VPP ver: 2025 1.01 | © ORC | www.orc.org



Club Certificate
2025

AFRODITI-
SOLARIS
GRE-1110

Hellenic Sailing Federation
Offshore Committee
Επιτροπή Ανοικτής Θαλάσσης
Ελληνικής Ισομετρικής
Ομοσπονδίας



MAINSAIL												
Id	MHB	MUW	MTW	MHW	MQW	Area	Meas.Date	Comment				
2	0.15	0.92	1.67	3.00	3.94		39.21	27/06/2018				
HEADSAIL												
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying FT	Area	Meas.Date	Comment
1	0.07	0.64	1.21	2.32	3.45	4.53	16.14	No	No	37.36	09/07/2011	HYDRANET (polyester fiber, no film)
SYMMETRIC SPINNAKER												
Id	SLU	SLE	SL	SHW	SFL	Area	Meas.Date	Comment				
1	15.91	15.91	15.91	8.34	8.04	109.78	30/06/2016					
2	14.13	14.13	14.13	7.90	7.90	93.02	14/05/2007					

CRUISER/RACER REQUIREMENTS*			
Accommodation length	12.7 m	Table area	0.55 m²
Minimum number of berths	5	Personal gear stowage	0.20 m³
Minimum number of seats in cockpit	5	Food stowage	0.30 m³
Cabin sole		Stoves	
Galley gear stowage		Toilet	
Navigation area		Hanging locker	
Headroom	1.84 m	Fresh water capacity	167 l
Fuel capacity	104 l	Sinks	
Wash basin			

*This list is a summary of the requirements. See IMS Appendix 1 for details.

ORC Ref 03420003SUJ Issued on 29/05/2025 Valid until 31/12/2025

VPP ver: 2025 1.01 | © ORC | www.orc.org