



ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate

Number **00515**
Issued On **11/09/2020**
ORC Ref **03420000Q6H**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default 571kg
Maximum **375kg**
Minimum* **281kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	702.3	0.8543
Non Spin OSN	680.5	0.8817

Sails Limitations

Headsails **1** Spinnakers **4**

Spinnaker configuration
Symmetric: **Yes** **83.35**
Asymmetric: **Yes** **78.88**
Flying H/S: **No**
Spin. Pole: **Yes**

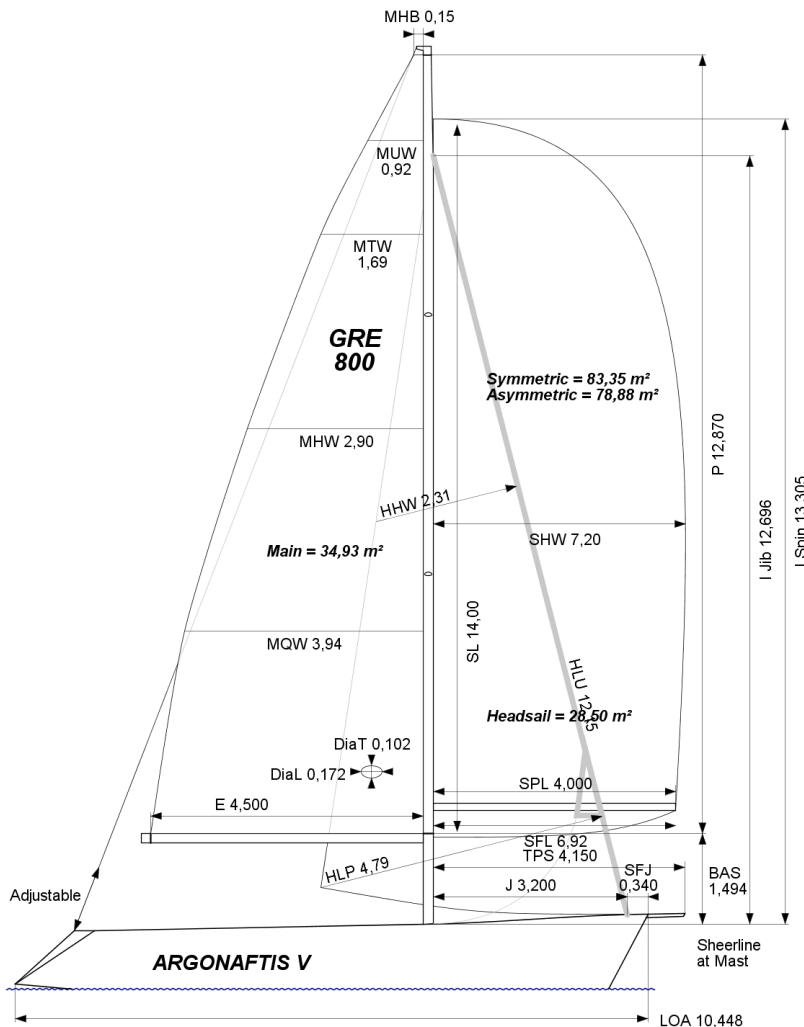
Class Division Length

CDL = 8.133

Stability (Measured)

Limit Positive Stab.: **102.8°**
Stability Index: **103.6**

Owner



BOAT	GPH	HULL
Name ARGONAFITIS V Sail Nr GRE-800	666.9	Data File GR800 LOA 10.448m Offset File ALBIREO.OFF MB 3.572m Displacement 5,864kg Draft 1.905m
CLASS Class FIRST 35 S5 Designer JEAN BERRET Builder BENETEAU Series 01/1987 Age Date 01/1990 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.349% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS ex "ALBIREO", ex "CHRYSOPELEIA".		IMSL 9.138m VCGD 0.223m Sink 18.09kg/mm RL 7.140m VCGM 0.232m WS 23.67m² LSM0 8.768m Displacement/Length ratio 8.6995
PROPELLER Installation Shaft exposed PRD 0.417 Type Feathering 3 blades PBW 0.136 PIPA 0.0058		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD NA
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	648.6	725.2
Time on Time	0.9251	0.9308
Triple Number	Low Medium High	Low Medium High
Time on Distance	764.6 589.9 530.9	990.2 729.7 636.7
Time on Time	0.8828 1.1442 1.2714	0.6817 0.9250 1.0601

BOAT
Name ARGONAFIS V Sail Nr GRE-800
File GR800 Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 26/05/2019		SG 1.0300	
FFM 1.219	FF 1.223	SFFP 0.428	
FAM 0.918	FA 0.918	SAFP 9.146	
W1 70.2	PD1 562.6	WD 10.270	
W2 70.2	PD2 562.5	GSA 1.0	
W3 70.2	PD3 563.7	RSA 1.0	
W4 70.2	PD4 563.8	PLM 9000.0	
LCF from stem on CL / on sheer		5.629 / 5.893	
Maximum beam station from stem		6.995	
RM Measured		100.8kg-m	
RM Default		111.2kg-m	
Limit of positive stability / Stab.Index		102.8° / 103.6	
Freeboard at mast at 3.540		1.077	



2020
Measurements
Datasheet


RIG			
Forestay Tension Aft	Runners/Checkstays 0		Spreaders 2
Inner Stay None Fitted	Jib Furler Yes		Main Furler No
Carbon Mast No	Fiber Rigging No		Articulated Bowsprit No
P 12.870	E 4.500	MDT1 0.102	MW 0.172
IG 12.696	J 3.200	MDL1 0.172	GO 0.172
ISP 13.305	SFJ 0.340	MDT2 0.102	BD 0.148
BAS 1.494	SPL 4.000	MDL2 0.130	MWT 129.38
FSD 0.030	TPS 4.150	TL 1.905	MCG 5.522

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.417		
Type Feathering 3 blades	PBW 0.136		
Twin Screw No	PIPA 0.0058		
PSA 22.000	PHL 0.137	ST3 0.101	ESL 1.025
PSD 0.025	ST1 0.027	ST4 0.056	
PHD 0.067	ST2 0.101	ST5 0.215	

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COMMENTS	
ex "ALBIREO", ex "CHRYSOPELEIA".	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.15	0.92	1.69	2.90	3.94	34.93		10/10/2019	QUANTUM	Kevlar	LITE SKIN					
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.10	0.62	1.16	2.31	3.45	4.79	12.15	150%	28.50		No		10/10/2019	ARROW	Carbon	HEAVY
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	14.00	14.00	14.00	7.20	6.92	83.35		10/06/2019	ARROW	Nylon						
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	14.20	12.82	13.51	7.08	6.71	78.88	asym		14/01/2019	KAKITSIS	Polyester					
2	14.30	12.70	13.50	6.28	6.80	71.82	asym		14/01/2019	KAKITSIS	Polyester					

MEASUREMENT INVENTORY				
Measurer GRE-103				
Date 26/05/2019				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YANMAR	3YM 29HP	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
4	Tank	WATER	PVC	100.0	2.35			0-0 C
3	Tank	WATER	PVC	100.0	4.00			0-0 P
2	Tank	FUEL	PVC	22.0	8.45			45-0 P
1	Tank	FUEL	PVC	70.0	3.75			50-0 S
Id	Item	Weight	Distance	VCG	Description			
1	Battery	60.0	7.00		2X100 Ah			
2	Misc	10.0	7.40		HEATING SYSTEM (P)			
3	Misc	10.0	7.20		WATER HEATER (C)			
1	Misc		0.50		1 SOLAR PANEL (1.00X1.00m) (C)			

2020

ORC Club Certificate Appendix

BOAT	
Name	ARGONAFTIS V
Sail Nr	GRE-800
Certificate Number	00515
Issued On	11/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1149.6	954.8	850.0	790.2	767.8	759.9	768.3
52°	747.4	634.5	567.2	539.6	528.9	524.6	523.5
60°	705.1	601.6	546.3	524.1	513.2	508.5	506.1
75°	673.5	575.2	531.6	511.0	498.0	488.8	480.3
90°	667.6	559.4	517.2	500.2	491.4	478.3	457.6
110°	662.3	551.9	510.5	487.8	469.0	454.8	437.6
120°	684.0	565.8	515.7	490.4	469.1	449.2	420.8
135°	755.2	617.6	538.5	505.3	482.7	461.0	420.7
150°	895.6	712.2	602.8	536.0	505.7	484.3	443.8
Run VMG	1034.1	822.4	695.5	609.1	551.1	515.3	473.1
Selected Courses							
Windward / Leeward	1091.8	888.6	772.8	699.7	659.4	637.6	620.7
Circular Random	917.7	741.2	646.8	592.7	560.4	540.5	518.4
Coastal / Long Distance	1086.1	832.8	694.1	611.0	570.0	539.4	491.8
Non Spinnaker	982.2	786.6	680.3	618.0	580.2	556.7	531.8

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	43.5°	41.6°	41.3°	41.6°	40.9°	40.5°	41.4°
Beat VMG	3.13	3.77	4.24	4.56	4.69	4.74	4.69
52°	4.82	5.67	6.35	6.67	6.81	6.86	6.88
60°	5.11	5.98	6.59	6.87	7.01	7.08	7.11
75°	5.35	6.26	6.77	7.05	7.23	7.37	7.50
90°	5.39	6.43	6.96	7.20	7.33	7.53	7.87
110°	5.44	6.52	7.05	7.38	7.68	7.92	8.23
120°	5.26	6.36	6.98	7.34	7.67	8.01	8.55
135°	4.77	5.83	6.69	7.12	7.46	7.81	8.56
150°	4.02	5.05	5.97	6.72	7.12	7.43	8.11
Run VMG	3.48	4.38	5.18	5.91	6.53	6.99	7.61
Gybe Angles	146.0°	150.0°	151.0°	157.5°	180.0°	180.0°	180.0°