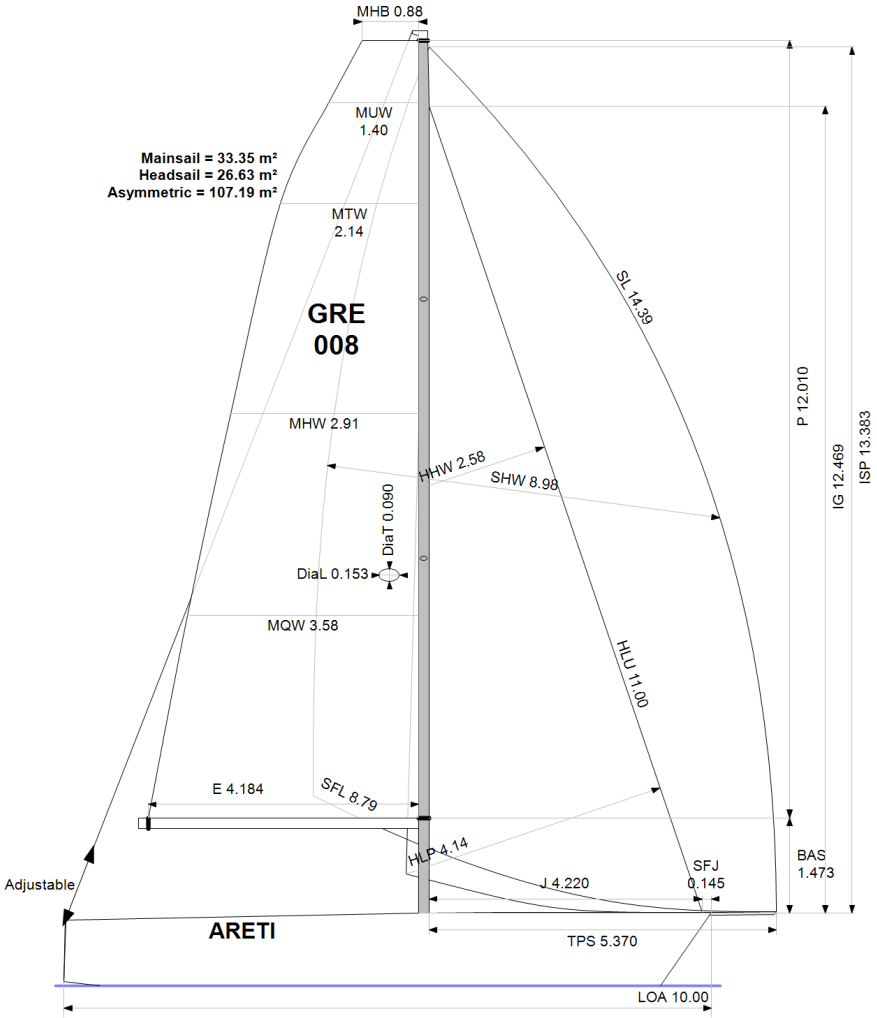
International Certificate 2024

Boat
ARETI
GRE-008

Hellenic Sailing Federation
Offshore Committee
Επιτροπή Ανοικτής Θαλάσσης
Ελληνικής Ιστιοπλοϊκής
Ομοσπονδίας

APH ToD: **540.5** CDL: **9.042**
APH ToT: **1.1100** CertNo: **02142**



Rated boat velocities in knots								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat Angles	43.6°	41.1°	39.4°	38.8°	38.5°	38.3°	38.7°	40.5°
Beat VMG	3.49	4.26	4.76	5.08	5.23	5.31	5.34	5.24
52°	5.33	6.28	6.86	7.20	7.40	7.50	7.60	7.60
60°	5.60	6.51	7.05	7.38	7.63	7.78	7.93	7.96
75°	5.78	6.72	7.24	7.56	7.89	8.17	8.48	8.63
90°	6.04	6.98	7.52	7.95	8.26	8.53	8.96	9.36
110°	5.94	7.01	7.64	8.17	8.61	9.12	10.00	10.87
120°	5.82	6.93	7.59	8.19	8.78	9.36	10.48	12.39
135°	5.17	6.46	7.27	7.85	8.44	9.11	10.95	14.01
150°	4.37	5.54	6.53	7.23	7.64	8.04	9.36	12.85
Run VMG	3.78	4.80	5.66	6.26	6.62	7.04	8.11	11.13
Gybe Angles	143.5°	147.5°	148.1°	150.1°	148.6°	173.5°	142.0°	142.7°

BOAT

Class	**SUN FAST 3300**
Designer	**Andrieu/Verdier**
Builder	**JEANNEAU**
Age date	**05/2023**
Series date	**04/2019**
Offset file	**SF3300.off**
Data file	**GR008**

HULL

Length Overall	**10.000 m**
Maximum Beam	**3.408 m**
Draft	**1.951 m**
Displacement	**3,662 kg**
DLR	**5.7175**
IMS Division	**Performance**
Dynamic Allowance	**0.000%**
Age Allowance	**0.163%**

PROPELLER

Installation	**Shaft non exposed**
Type	**Folding 2 blades**
Diameter	**0.350m**

CREW

Maximum weight	**320 kg** (declared)
Minimum weight	**190 kg** ** when applied*
Non Manual Power	**No**
Crew Arm Extension	

SAIL AREAS (m²)

	Measured	Rated
Mainsail	**33.35**	**34.35**
Headsail Luffed	**26.63**	**26.63**
Headsail Flying		
Symmetric		
Asymmetric	**107.19**	**107.19**

(2 asymmetric(s) with SHW/SFL < 85%)

STORM SAIL AREAS (m²)

Trysail	**8.80**
Storm Jib	**7.82**
Heavy Weather Jib	**21.11**

SAIL LIMITS

Headsails	**5**
Spinnakers	**4**

STABILITY

Righting Moment	**119.0 kg·m**
Stability Index	**108.6**

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.

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Time Allowances in secs/NM								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Beat VMG	1030.3	845.4	756.1	708.5	688.3	678.1	674.8	686.4
52°	675.9	573.2	524.5	500.1	486.8	480.1	474.0	473.7
60°	642.8	552.8	510.6	487.9	471.9	462.9	454.1	452.4
75°	622.7	535.3	497.2	476.0	456.2	440.6	424.7	417.1
90°	596.3	515.6	478.5	452.8	435.6	422.3	402.0	384.4
110°	605.9	513.2	471.1	440.5	418.2	394.8	359.9	331.1
120°	618.8	519.2	474.4	439.8	410.2	384.8	343.4	290.6
135°	696.5	557.1	494.9	458.7	426.7	395.2	328.9	256.9
150°	823.8	649.5	551.3	498.1	470.9	447.9	384.5	280.1
Run VMG	951.2	750.0	636.6	575.1	543.8	511.7	444.0	323.5
Selected Courses								
Windward / Leeward	990.8	797.7	696.3	641.8	616.0	594.9	559.4	504.9
All purpose	760.8	626.8	560.4	522.6	500.4	482.5	452.3	416.9

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	671.8	0.8931
All purpose	540.5	1.1100

Custom scoring options for Greece

Scoring Option	Time On Distance	Time On Time
Coastal/Long Distance	588.2	1.0201
Triple Number Coastal/Long Distance Low	693.8	0.8648
Triple Number Coastal/Long Distance Medium	538.4	1.1145
Triple Number Coastal/Long Distance High	475.7	1.2614
Triple Number Windward/Leeward Low	894.2	0.6710
Triple Number Windward/Leeward Medium	666.5	0.9002
Triple Number Windward/Leeward High	586.9	1.0224

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	24 kt
Coastal/Long Distance	986.8	750.0	629.2	558.0	519.5	486.9	430.1	391.6

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Data in **meters/kilograms (Metric)**

HULL AND APPENDAGES (Lightship Trim)

Class	**SUN FAST 3300**	LOA	**10.000**	VCGD	**-0.124**
Measurement	**10/04/2023**	Max. Beam	**3.408**	VCGM	**-0.010**
HIN		Draft	**1.951**	RM Rated (kg·m)	**119.0**
Plan review		Displacement	**3,662**	Limit of positive stability(°)	**112.9**
Hull construction	**Cored**	Wetted area	**21.71**	Stability Index	**108.6**
Carbon Rudder	**No**	IMS L	**9.198**	BLR index	**1.0711**
Light stanchions	**No**	LSM0	**8.619**	Default crew weight	**557**
Trim tab	**No**	Acc. length	**10.000**	Declared crew weight	**320**
		Sink (kg/mm)	**17.98**		

PROPELLER

Propeller Type	**Folding 2 blades**						
Installation	**Shaft non exposed**	PRD	**0.350**	PSD	**0.025**	PSA	**18.0°**
Twin screw	**No**	PBW	**0.088**	PHD	**0.070**	ESL	**0.222**
Hydro generator	**No**	PIPA	**0.0014**	PHL	**0.138**		

RIG

Forestay tension	**Aft**	P	**12.010**	E	**4.184**
Inner stay	**None Fitted**	IG	**12.469**	J	**4.220**
Mast material	**Carbon**	ISP	**13.383**	BAS	**1.473**
Single headsail furler	**No**	MDT1	**0.090**	FSD	**0.000**
Mainsail furler	**No**	MDL1	**0.153**	SFJ	**0.145**
Articulated bowsprit	**No**	MDT2	**0.082**	SPL	
Non-circular rigging	**No**	MDL2	**0.135**	WPL	
Fiber rigging	**No**	TL	**1.010**	TPS	**5.370**
Adjustable mast foot	**No**	MW	**0.153**	BD	**0.170**
Runners/Checkstays	**0**	GO	**0.165**	MWT	**81.00**
Spreaders	**2**			MCG	**5.012**
Rotating mast	**No**				

FLOTATION AND STABILITY

Calculation method	**Boom inclining**	SFFP	**0.520**	SAFP	**9.975**	W1	**91.0**	PD1	**253.2**	WD	**4.170**
Flotation Date	**11/06/2023**	FFM	**1.130**	FAM	**0.200**	W2	**91.0**	PD2	**249.9**	PLM	**9000.00**
Measurer	**GRE-21**	FF	**1.130**	FA	**0.201**	W3	**91.0**	PD3	**252.8**	GSA	**1.0**
		LCFcl	**5.548**	LCFsh	**5.776**	W4	**91.0**	PD4	**252.9**	RSA	**1.0**
		SG		HBI	**1.123**	LCFD	**7.060**			RM	**118.5**

INVENTORY

BALLAST	***Id***	***Kind***	***Description***	***Weight***	***LCG***	***VCG***	***TCG***
	1	Movable	Empty during measurement.	200	6.40	0.90	1.40
			Fixed Ballast Total	**0**			

TANKS	***Id***	***Description***	***Sp.Wght***	***Capacity***	***Condition***	***LCG***	***VCG***
	1	TCG=0 (C) PVC hard FUEL TANK	Fuel	50	~~10~~	7.60	0.30
	2	TCG=0.90 (S) PVC soft bag WATER TANK	Water	100	~~5~~	4.07	0.10
	3	TCG=0 (C) HOLDING TANK	Water		0	1.67	0.40
			Total deductible		**13**	**6.28**	**0.23**

OTHER ITEMS	***Id***	***Kind***	***Description***	***Weight***	***LCG***	***VCG***
	4	Miscellaneous	2 burners (TCG=0.80 P)		6.37	0.90
	2	Battery	1 x 120 Ah (TCG=0.60 P)		7.17	0.40
	3	Battery	2 x 140 Ah (TCG=0.60 S)		7.17	0.40
	1	Engine	YANMAR 2YM15 (15HP)			
			Total deductible			

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MAINSAIL

Id	*MHB*	*MUW*	*MTW*	*MHW*	*MQW*	*Area*	*Meas.Date*	*Comment*
1	0.88	1.40	2.14	2.91	3.58	33.35	07/06/2023	

HEADSAIL

Id	*HHB*	*HUW*	*HTW*	*HHW*	*HQW*	*HLP*	*HLU*	*Btn*	*Flying FT*	*Area*	*Meas.Date*	*Comment*
J2	0.40	1.00	1.60	2.58	3.39	4.14	11.00	Yes	No	26.63	07/06/2023	J2 (FO=0.242)
J3	0.18	0.76	1.31	2.19	3.13	4.09	10.95	Yes	No	23.85	07/06/2023	J3 (FO=0.220)
J4	0.06	0.41	0.83	1.64	2.50	3.49	10.04	Yes	No	16.95	07/06/2023	J4
S	0.06	0.37	0.68	1.33	1.99	2.66	7.78	No	Inner	10.42	07/06/2023	STAYSAIL

ASYMMETRIC SPINNAKER

Id	*SLU*	*SLE*	*SL*	*SHW*	*SFL*	*Ratio*	*Area*	*Meas.Date*	*Comment*
A4	15.63	13.14	14.39	8.98	8.79	102%	107.19	07/06/2023	A4 PINK
A2	15.38	12.85	14.12	7.97	8.05	99%	93.94	07/06/2023	A2 BLUE
A3	14.58	12.82	13.70	5.66	7.50	75%	68.82	07/06/2023	A3 WHITE
C0	14.10	12.63	13.37	4.15	5.53	75%	49.29	07/06/2023	C0