



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 **00252**
Issued On **06/06/2020**
ORC Ref **03420000K2F**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default 421kg
Maximum **340kg**
Minimum* **255kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	807.5	0.7430
Non Spin OSN	779.0	0.7702

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes** 49.71
Asymmetric: **No**
Flying H/S: **Yes** 17.22
Spin. Pole: **Yes**

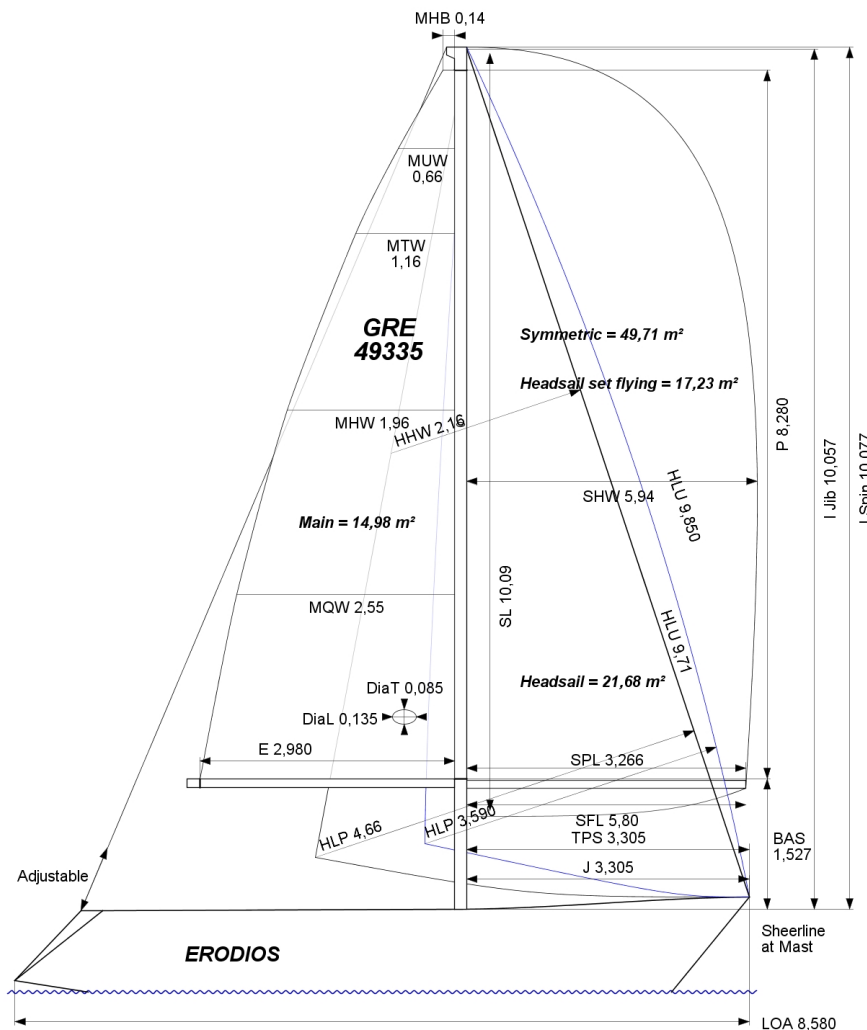
Class Division Length

CDL = 6.158

Stability (Measured)

Limit Positive Stab.: **113.8°**
Stability Index: **114.2**

Owner



BOAT		GPH		HULL				
Name	ERODIOS	769.9	Data File	GR49335	LOA	8.580m		
Sail Nr	GRE-49335		Offset File	ERODIOS.OFF	MB	2.984m		
			Displacement	3,616kg	Draft	1.617m		
			IMS Division	Cruiser/Racer	Dynamic All.	0.630%		
			Plan Review		Construction	Solid		
			Fiber Rigging	No	Aramid Core	No		
			Crew Arm Ex		Carbon Rudder	No		
					Light Stanchions	No		
			IMSL	7.093m	VCGD	0.296m	Sink	11.64kg/mm
			RL	5.226m	VCGM	0.097m	WS	16.15m²
			LSM0	7.083m	Displacement/Length ratio			10.1760
			Water Ballast	0	Trim Tab	No		
			BLR Index	0.0000				
COMMENTS			CENTERBOARD					
			NA					
PROPELLER								
Installation	Strut	PRD	0.360					
Type	Folding 2 blades	PBW	0.095					
		PIPA	0.0028					
SCORING OPTIONS								
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD				
Time on Distance	746.4			832.6				
Time on Time	0.8039			0.8107				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	893.2	679.6	599.9	1148.3	843.0	716.3		
Time on Time	0.7557	0.9932	1.1252	0.5878	0.8007	0.9424		

BOAT	
Name ERODIOS	Sail Nr GRE-49335
File GR49335	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 1
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 8.280	E 2.980 MDT1 0.085 MW 0.135
IG 10.057	J 3.305 MDL1 0.135 GO 0.155
ISP 10.077	SFJ 0.000 MDT2 0.085 BD
BAS 1.527	SPL 3.266 MDL2 0.135 MWT
FSD 0.025	TPS 3.305 TL 0.000 MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 05/04/2017		SG 1.0280	
FFM 1.111	FF 1.106	SFFP 0.450	
FAM 0.950	FA 0.954	SAFP 7.551	
W1 41.5	PD1 546.3	WD 8.065	
W2 41.5	PD2 546.8	GSA 1.0	
W3 41.5	PD3 544.3	RSA 1.0	
W4 41.5	PD4 544.7	PLM 9000.0	
LCF from stem on CL / on sheer		4.687 / 4.897	
Maximum beam station from stem		5.202	
RM Measured		48.3kg-m	
RM Default		49.0kg-m	
Limit of positive stability / Stab.Index		113.8° / 114.2	
Freeboard at mast at 3.305		0.968	



ORC
Offshore Racing Congress
World leader in rating technology


2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.360		
Type Folding 2 blades	PBW 0.095		
Twin Screw No	PIPA 0.0028		
ST1 0.057	ST3 0.200	ST5 0.206	
ST2 0.200	ST4 0.093	EDL 1.950	

Certificate

Number **00252**
ORC Ref **03420000K2F**
Issued On **06/06/2020**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**



COMMENTS	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M1	0.14	0.66	1.16	1.96	2.55	14.98		30/05/2018		Pentex						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.03	0.55	1.07	2.16	3.31	4.66	9.71	141%	21.68		No		16/06/2015	ZOUGANELI	Kevlar	
LT	0.03	0.42	0.80	1.70	2.66	3.59	9.85	109%	17.23		Yes		16/06/2015	KAFETZIDA	Nylon	
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	10.09	10.09	10.09	5.94	5.80	49.71		21/10/2008	SAILOR CO.	Nylon	WHITE					
2	10.00	10.00	10.00	5.98	5.70	49.37		27/11/2014		Nylon	RED-YELLOW					
1	9.76	9.76	9.76	5.14	5.19	41.89		12/03/2013	KAKITSIS	Nylon	RED-CYAN-FUCHSIA					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer GRE-21				
Date 05/04/2017				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	VOLVO PENTA	13.5 H	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	FUEL		INOX	40.0	6.50		20.0	S
2	Tank	WATER		PVC	45.0	6.50		0.0	P
3	Tank	WATER		BUILT	200.0	2.00		0.0	C
Id	Item	Weight	Distance	VCG	Description				
1	Battery		4.00		1 x 100 Ah (P)				
2	Battery		5.50		1 x 100 Ah (P)				
1	Misc	10.0	0.90		ANCHOR WINDLASS 1000W				
2	Misc				GENOA FURLING SYSTEM				
3	Misc		7.10		BIMINI				

2020

ORC Club Certificate Appendix

BOAT	
Name	ERODIOS
Sail Nr	GRE-49335
Certificate Number	00252
Issued On	06/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1347.4	1126.9	1007.8	923.7	872.5	851.3	850.0
52°	875.6	745.4	667.0	620.5	597.5	586.3	580.7
60°	828.3	706.3	635.2	600.0	581.5	570.6	561.9
75°	797.2	676.8	612.8	584.1	567.1	554.4	537.0
90°	799.7	663.1	594.0	566.8	554.3	547.4	522.4
110°	780.5	644.3	583.5	556.0	534.7	515.7	495.2
120°	803.9	659.8	589.5	559.4	536.7	515.0	480.7
135°	883.4	720.0	618.5	575.7	551.0	528.8	488.1
150°	1022.6	814.3	690.5	610.6	574.4	551.8	510.9
Run VMG	1180.8	938.6	794.9	693.6	623.3	582.7	538.8
Selected Courses							
Windward / Leeward	1264.1	1032.7	901.3	808.6	747.9	717.0	694.4
Circular Random	1068.4	860.0	746.7	679.8	638.7	612.7	583.5
Coastal / Long Distance	1255.8	968.3	807.4	703.3	647.2	610.5	555.1
Non Spinnaker	1134.7	907.6	782.5	707.5	660.6	630.6	597.0

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	44.3°	42.6°	42.0°	42.0°	41.6°	41.3°	41.6°
Beat VMG	2.67	3.19	3.57	3.90	4.13	4.23	4.24
52°	4.11	4.83	5.40	5.80	6.03	6.14	6.20
60°	4.35	5.10	5.67	6.00	6.19	6.31	6.41
75°	4.52	5.32	5.88	6.16	6.35	6.49	6.70
90°	4.50	5.43	6.06	6.35	6.49	6.58	6.89
110°	4.61	5.59	6.17	6.47	6.73	6.98	7.27
120°	4.48	5.46	6.11	6.44	6.71	6.99	7.49
135°	4.08	5.00	5.82	6.25	6.53	6.81	7.38
150°	3.52	4.42	5.21	5.90	6.27	6.52	7.05
Run VMG	3.05	3.84	4.53	5.19	5.78	6.18	6.68
Gybe Angles	148.0°	152.5°	153.0°	159.0°	180.0°	180.0°	180.0°