



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 **01057**
Issued On **03/07/2020**
ORC Ref **03420000LWE**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default 516kg
Maximum **516kg**
Minimum* **387kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	804.0	0.7463
Non Spin OSN	773.5	0.7757

Sails Limitations

Headsails **1** Spinnakers **4**
Woven Polyester

Spinnaker configuration
Symmetric: **Yes** **59.48**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

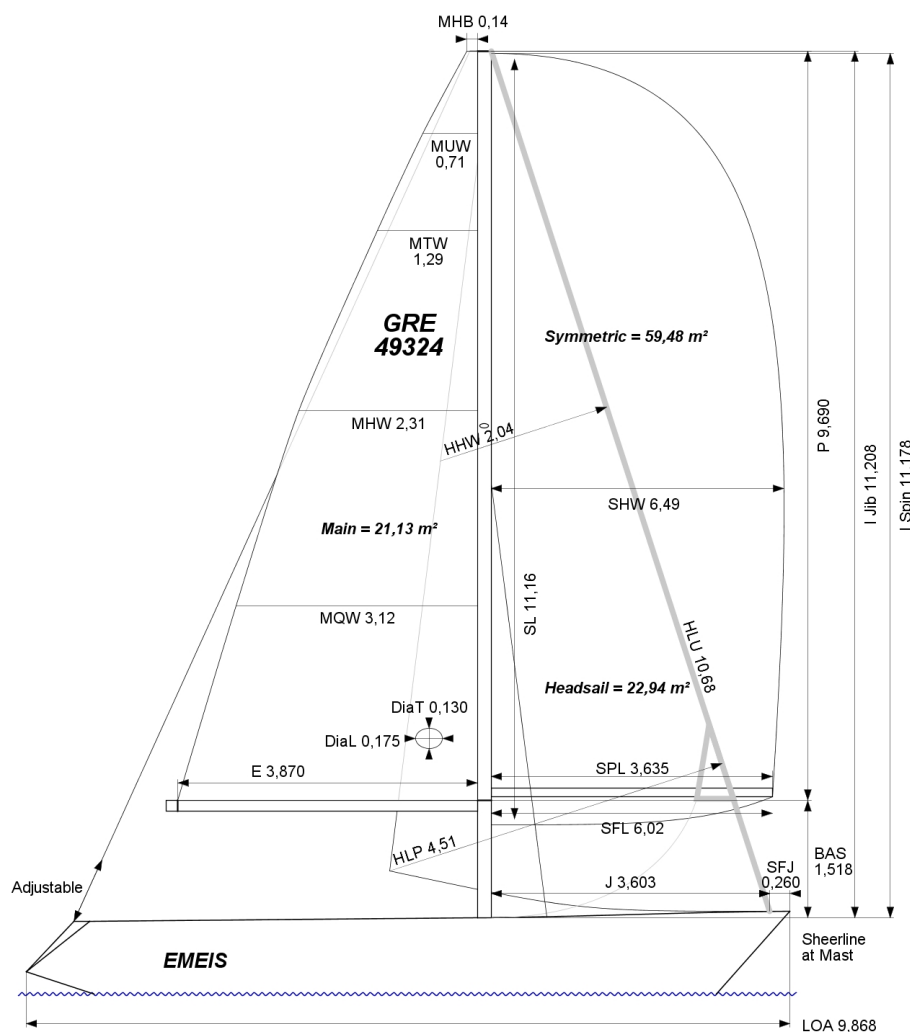
Class Division Length

CDL = 6.642

Stability (Measured)

Limit Positive Stab.: **118.6°**
Stability Index: **119.8**

Owner



BOAT		GPH	HULL			
Name	EMEIS	761.6	Data File	GR49234		
Sail Nr	GRE-49324		LOA	9.868m		
CLASS			Offset File	GR0084.OFF		
Class	SIGMA 33		Displacement	4,586kg		
Designer	D.THOMAS		Dynamic All.	0.519%		
Builder	MARINE PROJECTS		Plan Review	Construction Solid		
Series	12/1978		Fiber Rigging	No		
Age Date	01/1982		Crew Arm Ex	No		
Age Allowance	0.487%		Aramid Core	No		
COMMENTS			Carbon Rudder	No		
ex "LASER"			Light Stanchions	No		
PROPELLER			IMSLS	8.181m		
Installation	Shaft exposed	PRD	0.008m	Sink		
Type	Solid 2 blades	PBW	0.128	13.78kg/mm		
		PIPA	0.0177	RL		
				5.109m		
CENTERBOARD			WS	20.01m²		
NA			LSM0	8.171m		
			Displacement/Length ratio	8.4064		
			Water Ballast	0		
			Trim Tab	No		
			BLR Index	0.0000		
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	736.2			827.7		
Time on Time	0.8150			0.8155		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	904.1	667.9	576.2	1175.8	841.3	696.5
Time on Time	0.7466	1.0107	1.1714	0.5741	0.8023	0.9692

BOAT	
Name EMEIS File GR49234	Sail Nr GRE-49324 Data in meters/kilograms
RIG	
Forestay Tension Aft	Spreaders 1
Inner Stay Fixed	Runners/Checkstays 0
Carbon Mast No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 9.690	E 3.870 MDT1 0.130 MW 0.175
IG 11.208	J 3.603 MDL1 0.175 GO 0.220
ISP 11.178	SFJ 0.260 MDT2 0.130 BD 0.135
BAS 1.518	SPL 3.635 MDL2 0.175 MWT
FSD 0.030	TPS TL 0.000 MCG

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 04/07/1994		SG 1.0270	
FFM 1.070	FF 1.062	SFFP 0.623	
FAM 0.929	FA 0.941	SAFP 9.043	
W1 10.0	PD1 38.0	WD 9.670	
W2 20.0	PD2 79.0	GSA 28.7	
W3 30.0	PD3 118.0	RSA 5674.5	
W4 40.0	PD4 157.0	PLM 1628.0	
LCF from stem on CL / on sheer		5.364 / 5.580	
Maximum beam station from stem		5.728	
RM Measured		69.8kg-m	
RM Default		66.4kg-m	
Limit of positive stability / Stab.Index		118.6° / 119.8	
Freeboard at mast at 3.863		0.986	



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2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0.394		
Type Solid 2 blades	PBW 0.128		
Twin Screw No	PIPA 0.0177		
PSA 19.000	PHL 0.184	ST3 0.098	ESL 0.792
PSD 0.025	ST1 0.022	ST4 0.054	
PHD 0.072	ST2 0.098	ST5 0.163	

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COMMENTS	
ex "LASER"	

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	0.14	0.71	1.29	2.31	3.12	21.14		15/07/2014	ZOUGANELI	Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.06	0.50	0.99	2.04	3.24	4.51	10.68	125%	22.94		No		15/07/2014	ZOUGANELI	Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11.16	11.16	11.16	6.49	6.02	59.49		20/05/2017	KAFETZIDA	Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer KARRAS				
Date 06/07/1994				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
4	Anchor	40.0	8.30	ANCHOR
4	Chain	30.0	8.30	CHAIN+ROPE
4	Foels	4.0	4.00	
Id	Item	Maker	Model	
1	Engine	YANMAR	20 HP	
Id	Item	Weight	Description	
4	Fwd Items	40.0		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	FUEL	INOX	70.0	7.10			0-0
2	Tank	WATER	GRP	100.0	4.60			0-0
3	Tank	WATER	GRP	100.0	4.60			0-0
Id	Item	Weight	Distance	VCG	Description			
1	Battery	3.80		1 x 88 Ah				
2	Battery	3.80		1 x 55 Ah				

2020

ORC Club Certificate Appendix

BOAT			
Name	EMEIS	Certificate Number	01057
Sail Nr	GRE-49324	Issued On	03/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1430.8	1165.4	1026.6	934.2	867.4	833.5	825.5
52°	907.6	752.3	665.8	608.3	576.5	560.7	552.8
60°	844.0	706.5	624.3	579.5	556.6	543.2	532.8
75°	803.6	675.8	595.1	559.4	540.5	526.7	507.2
90°	791.2	649.5	571.2	539.4	523.3	515.5	493.8
110°	770.4	629.9	558.4	528.5	506.8	487.3	463.2
120°	791.7	646.7	565.6	532.3	509.7	488.1	452.4
135°	877.7	707.6	601.0	550.5	524.6	502.8	461.4
150°	1022.4	803.0	677.6	591.9	549.4	525.5	485.1
Run VMG	1180.5	926.4	780.8	678.0	606.6	559.6	513.3
Selected Courses							
Windward / Leeward	1305.7	1045.9	903.7	806.1	737.0	696.6	669.4
Circular Random	1076.4	858.1	737.5	665.1	619.7	590.4	558.1
Coastal / Long Distance	1293.2	977.0	803.6	691.4	627.1	585.1	527.5
Non Spinnaker	1151.7	911.9	777.9	696.1	644.0	610.1	571.9

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	46.5°	44.6°	43.7°	43.5°	43.5°	42.8°	42.8°
Beat VMG	2.52	3.09	3.51	3.85	4.15	4.32	4.36
52°	3.97	4.79	5.41	5.92	6.24	6.42	6.51
60°	4.27	5.10	5.77	6.21	6.47	6.63	6.76
75°	4.48	5.33	6.05	6.44	6.66	6.83	7.10
90°	4.55	5.54	6.30	6.67	6.88	6.98	7.29
110°	4.67	5.71	6.45	6.81	7.10	7.39	7.77
120°	4.55	5.57	6.37	6.76	7.06	7.38	7.96
135°	4.10	5.09	5.99	6.54	6.86	7.16	7.80
150°	3.52	4.48	5.31	6.08	6.55	6.85	7.42
Run VMG	3.05	3.89	4.61	5.31	5.93	6.43	7.01
Gybe Angles	148.0°	151.5°	153.0°	156.0°	174.0°	180.0°	180.0°