



2020
ORC Club
Certificate

Rating Office
Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας



Certificate
 Number **00085**
 Issued On **29/04/2020**
 ORC Ref **03420000HMF**
 VPP Ver. **2020 1.01**
 Valid until **28/02/2021**

Crew Weight

Default	752kg
Maximum	700kg
Minimum*	525kg

**when applied by the NoR and SI*
 Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 670.5	0.8949
Non Spin OSN 647.6	0.9265

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes** **98.24**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **Yes**

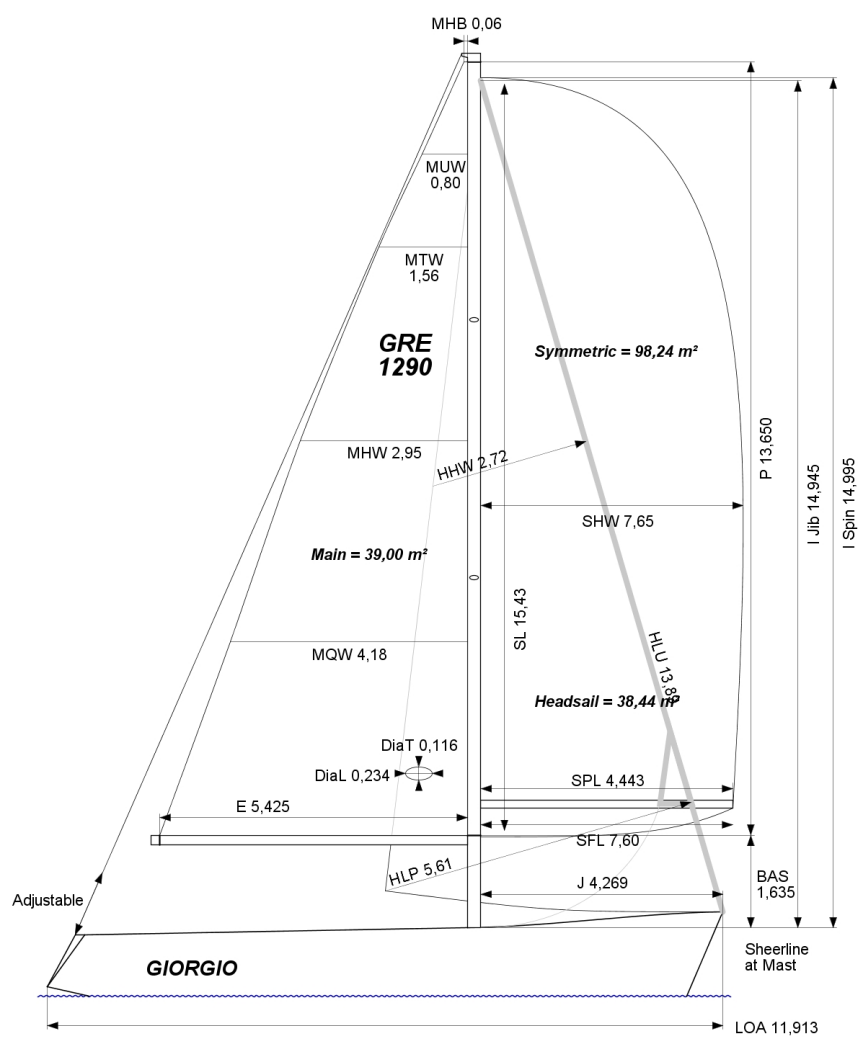
Class Division Length

CDL = 9.482

Stability (Estimated)

Limit Positive Stab.: **113.6°**
 Stability Index: **117.2**

Owner



BOAT		GPH		HULL					
Name GIORGIO Sail Nr GRE-1290		636.7		Data File GR1290	LOA 11.913m				
				Offset File E40SDFIN.off	MB 3.844m				
				Displacement 8,060kg	Draft 2.064m				
CLASS				IMS Division Cruiser/Racer	Dynamic All. 0.351%				
Class ELAN 40 SD FK				Plan Review	Construction Solid				
Designer HUMPHREYS				Fiber Rigging No	Aramid Core No				
Builder ELAN				Crew Arm Ex	Carbon Rudder No				
Series 01/2002				Light Stanchions No					
Age Date 01/2002				IMSL 10.694m	VCGD 0.253m	Sink 23.06kg/mm			
Age Allowance 0.487%				RL 8.269m	VCGM 0.066m	WS 31.19m²			
COMMENTS				LSM0 10.640m	Displacement/Length ratio 6.6913				
IRC weighted 21/3/2008 by measurer				Water Ballast 0	Trim Tab No				
				BLR Index 0.0000					
PROPELLER				CENTERBOARD					
Installation Strut	PRD 0.455								
Type Folding 2 blades	PBW 0.113	N/A							
	PIPA 0.0032								
SCORING OPTIONS									
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD					
Time on Distance	616.0			687.0					
Time on Time	0.9740			0.9825					
Triple Number	Low	Medium	High	Low	Medium	High			
Time on Distance	747.6	559.9	489.1	969.5	695.9	583.7			
Time on Time	0.9029	1.2056	1.3802	0.6962	0.9699	1.1565			

BOAT	
Name GIORGIO	Sail Nr GRE-1290
File GR1290	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast No	Jib Furler Yes
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 13.650	E 5.425 MDT1 0.116 MW
IG 14.945	J 4.269 MDL1 0.234 GO
ISP 14.995	SFJ 0.000 MDT2 0.170 BD
BAS 1.635	SPL 4.443 MDL2 0.170 MWT
FSD -3.000	TPS -3.000 TL -3.000 MCG

INCLINING TEST AND FREEBOARDS	
Inclining Test Club Estimated VCG	
Flotation date 01/01/2013	SG
FFM 1.464	FF 0.609
FAM 0.994	FA 11.257
LCF from stem on CL / on sheer	6.674 / 6.942
Maximum beam station from stem	6.868
RM Measured	179.0kg-m
RM Default	173.7kg-m
Limit of positive stability / Stab.Index	113.6° / 117.2
Freeboard at mast at 4.269	1.202



ORC
Offshore Racing Congress
World leader in rating technology


2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER	
Installation Strut	PRD 0.455
Type Folding 2 blades	PBW 0.113
Twin Screw No	PIPA 0.0032
ST1 0.049	ST3 0.176 ST5 0.270
ST2 0.176	ST4 0.099 EDL 2.959

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COMMENTS	
IRC weighted 21/3/2008 by measurer	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.06	0.80	1.56	2.95	4.18	39.00		20/07/2016	BANKS	Unknown						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.06	0.68	1.35	2.72	4.16	5.61	13.89	131%	38.44		No		21/07/2016	BANKS	Unknown	
SYMMETRIC SPINNAKERS (5)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
4	15.43	15.43	15.43	7.65	7.60	98.24		26/06/2013	NORTH	Nylon						
2	15.08	15.08	15.08	7.72	7.66	96.87		23/05/2009		Unknown	0.75					
3	15.05	15.05	15.05	7.65	7.76	96.22		25/06/2013	DIAMOND	Nylon						
1	15.25	15.25	15.25	7.53	7.71	96.16		23/05/2009		Unknown	0.50					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT	
Name	GIORGIO
Sail Nr	GRE-1290
Certificate Number	00085
Issued On	29/04/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1127.2	924.5	811.1	734.3	692.6	676.5	669.8
52°	726.0	609.4	539.9	502.9	485.9	478.1	473.7
60°	681.7	576.6	517.0	488.9	474.4	465.9	459.9
75°	650.4	551.0	501.0	478.1	463.8	452.7	437.8
90°	657.3	552.5	493.0	468.8	458.6	447.2	423.4
110°	656.9	538.9	484.4	460.0	441.1	424.1	405.2
120°	675.5	552.6	490.5	463.4	443.4	423.8	389.9
135°	745.5	604.4	520.4	479.8	457.7	438.1	399.0
150°	884.4	697.4	589.2	519.4	481.1	460.0	423.1
Run VMG	1021.2	805.3	680.1	594.8	537.8	494.8	451.5
Selected Courses							
Windward / Leeward	1074.2	864.9	745.6	664.5	615.2	585.7	560.7
Circular Random	891.9	714.2	616.9	559.2	523.2	500.0	473.0
Coastal / Long Distance	1068.9	810.9	667.6	577.2	530.5	498.8	451.6
Non Spinnaker	953.1	757.4	648.9	583.6	542.6	516.0	484.7

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	43.9°	42.0°	41.4°	40.9°	39.6°	39.0°	38.6°
Beat VMG	3.19	3.89	4.44	4.90	5.20	5.32	5.37
52°	4.96	5.91	6.67	7.16	7.41	7.53	7.60
60°	5.28	6.24	6.96	7.36	7.59	7.73	7.83
75°	5.54	6.53	7.19	7.53	7.76	7.95	8.22
90°	5.48	6.52	7.30	7.68	7.85	8.05	8.50
110°	5.48	6.68	7.43	7.83	8.16	8.49	8.89
120°	5.33	6.51	7.34	7.77	8.12	8.49	9.23
135°	4.83	5.96	6.92	7.50	7.87	8.22	9.02
150°	4.07	5.16	6.11	6.93	7.48	7.83	8.51
Run VMG	3.53	4.47	5.29	6.05	6.69	7.28	7.97
Gybe Angles	145.0°	149.5°	151.0°	154.0°	166.0°	180.0°	180.0°