



2020
ORC Club
Certificate

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



Certificate
Number **01235**
Issued On **26/08/2020**
ORC Ref **03420000P35**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	479kg
Maximum	510kg
Minimum*	383kg

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

Special Scoring

ToD	ToT
Non Spin GPH 757.1	0.7925
Non Spin OSN 730.4	0.8215

Sails Limitations

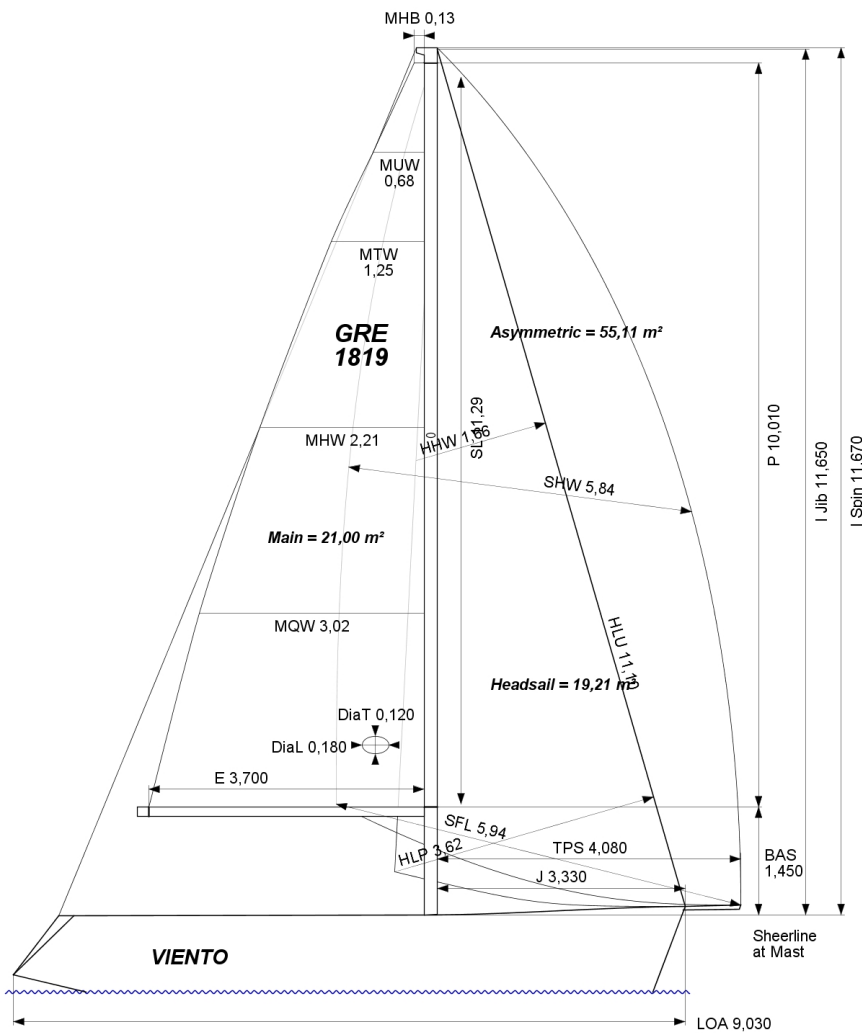
Headsails **5** Spinnakers **4**
Woven Polyester
Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 55.11**
Flying H/S: **No**
Spin. Pole: **No**

Class Division Length
CDL = 6.973

Stability (Estimated)
Limit Positive Stab.: **114.4°**
Stability Index: **111.6**

Owner



BOAT Name VIENTO Sail Nr GRE-1819		GPH 711.8	HULL Data File GR1819 LOA 9.030m Offset File DU30CLAS.off MB 3.040m Displacement 3,100kg Draft 1.530m					
CLASS Class DUFOUR 30 CLASSIC Designer J & J DESIGN Builder DUFOUR Series 01/1996 Age Date Age Allowance 0.487%			IMS Division Cruiser/Racer Dynamic All. 0.310% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No			IMSL 7.916m VCGD 0.018m Sink 13.62kg/mm RL 6.029m VCGM 0.086m WS 17.65m² LSM0 7.750m Displacement/Length ratio 6.6597		
COMMENTS Builder's displacement.			Water Ballast 0 Trim Tab No BLR Index 0.0000			CENTERBOARD N/A		
PROPELLER Installation Strut PRD 0.405 Type Folding 2 blades PBW 0.115 PIPA 0.0006								
SCORING OPTIONS								
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD				
Time on Distance	695.5			786.6				
Time on Time	0.8627			0.8581				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	821.2	629.9	556.2	1081.0	795.0	681.8		
Time on Time	0.8220	1.0716	1.2137	0.6244	0.8491	0.9900		

BOAT	
Name VIENTO File GR1819	Sail Nr GRE-1819 Data in meters/kilograms

RIG	
Forestay Tension Fixed	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 10.010	E 3.700 MDT1 0.120 MW
IG 11.650	J 3.330 MDL1 0.180 GO
ISP 11.670	SFJ 0.000 MDT2 0.120 BD
BAS 1.450	SPL 0.000 MDL2 0.180 MWT
FSD 0.045	TPS 4.080 TL 0.000 MCG

INCLINING TEST AND FREEBOARDS		
Inclining Test Club Estimated VCG		
Flotation date 28/08/2017	SG 1.0265	
FFM 1.144	FF 1.144	SFFP 0.787
FAM 1.023	FA 1.023	SAFP 8.220
LCF from stem on CL / on sheer		4.752 / 4.964
Maximum beam station from stem		5.183
RM Measured		70.4kg-m
RM Default		68.3kg-m
Limit of positive stability / Stab.Index		114.4° / 111.6
Freeboard at mast at 3.330		1.042




2020
Measurements
Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER		
Installation Strut	PRD 0.405	
Type Folding 2 blades	PBW 0.115	
Twin Screw No	PIPA 0.0006	
ST1	ST3	ST5
ST2	ST4	EDL

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COMMENTS	
Builder's displacement.	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.13	0.68	1.25	2.21	3.02	21.00		18/07/2019	QUANTUM	Dacron						
2	0.13	0.66	1.20	2.16	2.97	20.63		28/08/2017		Dacron						
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.06	0.42	0.80	1.66	2.59	3.62	11.10	109%	19.21	No	No		18/07/2019	QUANTUM	Dacron	
2	0.05	0.42	0.81	1.66	2.56	3.53	11.12	106%	19.02	No	No		28/08/2017		Dacron	
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	11.97	10.60	11.29	5.84	5.94	55.11	asym		04/04/2018	KAKITSIS	Nylon					
1	11.70	10.70	11.20	4.53	5.97	44.97	asy76		18/07/2019	QUANTUM	Nylon					

2020

ORC Club Certificate Appendix

BOAT			
Name	VIENTO	Certificate Number	01235
Sail Nr	GRE-1819	Issued On	26/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1299.4	1075.4	946.9	860.0	806.8	791.0	805.8
52°	829.3	693.6	617.8	576.5	554.9	545.3	545.2
60°	775.1	650.0	582.2	557.8	539.8	528.6	524.4
75°	693.4	587.6	547.4	527.1	516.2	508.0	489.6
90°	662.2	567.6	531.9	507.1	486.5	474.3	460.9
110°	683.8	577.5	536.0	508.5	482.1	459.3	423.1
120°	719.5	597.7	545.2	515.2	487.0	461.4	415.8
135°	802.6	653.0	571.3	534.5	507.2	480.6	433.4
150°	938.9	749.4	639.8	580.0	548.2	526.5	484.6
Run VMG	1084.1	865.3	738.7	669.8	618.9	569.6	519.6
Selected Courses							
Windward / Leeward	1191.8	970.4	842.8	764.9	712.9	680.3	662.7
Circular Random	984.6	793.9	690.6	629.8	592.1	568.0	541.3
Coastal / Long Distance	1181.0	904.5	751.2	657.1	601.8	563.3	508.2
Non Spinnaker	1072.1	853.7	733.0	660.5	615.1	586.3	555.8

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	45.4°	44.3°	42.8°	42.8°	40.9°	41.3°	42.8°
Beat VMG	2.77	3.35	3.80	4.19	4.46	4.55	4.47
52°	4.34	5.19	5.83	6.24	6.49	6.60	6.60
60°	4.64	5.54	6.18	6.45	6.67	6.81	6.86
75°	5.19	6.13	6.58	6.83	6.97	7.09	7.35
90°	5.44	6.34	6.77	7.10	7.40	7.59	7.81
110°	5.26	6.23	6.72	7.08	7.47	7.84	8.51
120°	5.00	6.02	6.60	6.99	7.39	7.80	8.66
135°	4.49	5.51	6.30	6.73	7.10	7.49	8.31
150°	3.83	4.80	5.63	6.21	6.57	6.84	7.43
Run VMG	3.32	4.16	4.87	5.37	5.82	6.32	6.93
Gybe Angles	146.5°	147.5°	147.3°	149.0°	174.0°	177.0°	178.0°