



2020
ORC Club
Certificate

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



Certificate
Number **00925**
Issued On **18/05/2020**
ORC Ref **03420000IEL**
VPP Ver. **2020 1.02**
Valid until **28/02/2021**

Crew Weight

Default	627kg
Maximum	500kg
Minimum*	375kg

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

Special Scoring

ToD	ToT
Non Spin GPH 710.4	0.8446
Non Spin OSN 687.7	0.8725

Sails Limitations

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

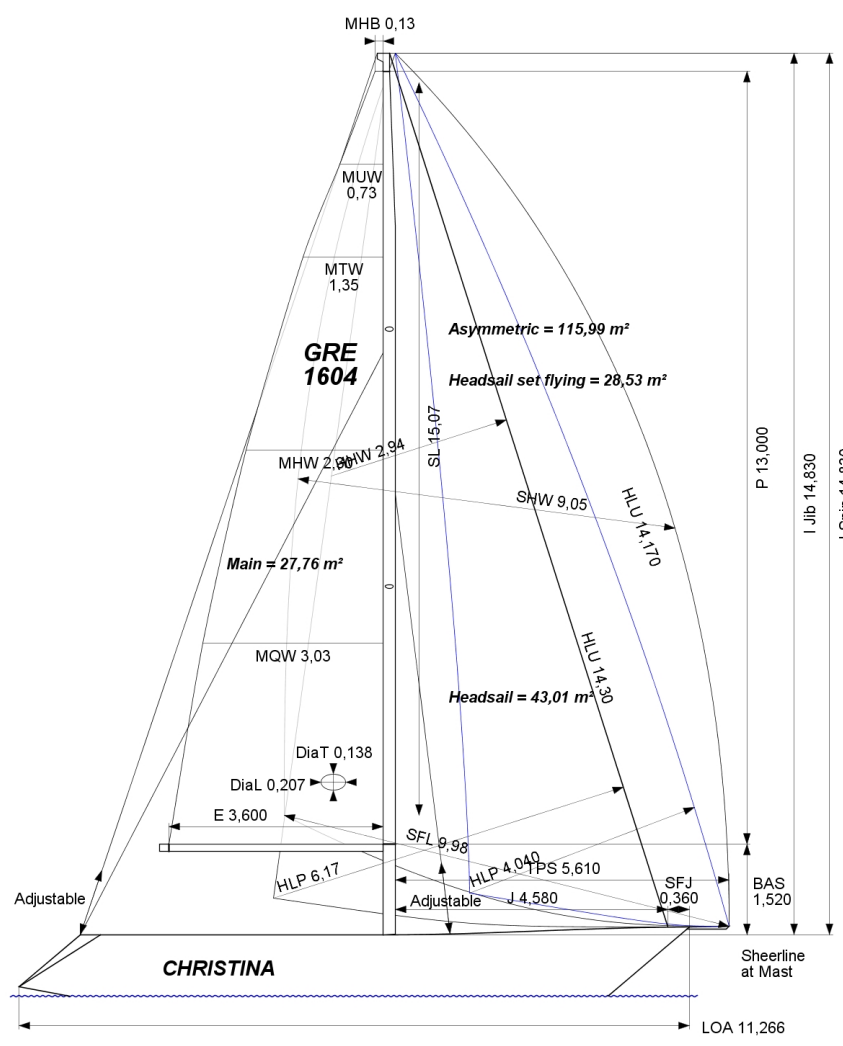
Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 115.99**
Flying H/S: **Yes 41.60**
Spin. Pole: **No**

Class Division Length
CDL = **8.269**

Stability (Estimated)
Limit Positive Stab.: **118.0°**
Stability Index: **122.3**

Owner



BOAT Name CHRISTINA Sail Nr GRE-1604	GPH 669.6	HULL Data File GR1604 LOA 11.266m Offset File GR0004.BOF MB 3.702m Displacement 7,850kg Draft 1.997m IMS Division Cruiser/Racer Dynamic All. 0.558% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No IMSL 9.257m VCGD -0.036m Sink 18.76kg/mm RL 7.280m VCGM -0.022m WS 27.29m² LSM0 9.362m Displacement/Length ratio 9.5667 Water Ballast 0 Trim Tab No BLR Index 0.0000
CLASS Class OYSTER 37 Designer HOLMAN & PYE Builder OYSTER MARINE Series 01/1978 Age Date 01/1979 Age Allowance 0.487%		CENTERBOARD NA
COMMENTS		
PROPELLER Installation Shaft exposed PRD 0.510 Type Feathering 3 blades PBW 0.190 PIPA 0.0035		
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	651.9	731.5
Time on Time	0.9203	0.9228
Triple Number	Low Medium High	Low Medium High
Time on Distance	766.6 593.3 532.5	988.4 737.7 640.7
Time on Time	0.8805 1.1378 1.2676	0.6829 0.9150 1.0536

BOAT			
Name	CHRISTINA	Sail Nr	GRE-1604
File	GR1604	Data in	meters/kilograms
RIG			
Forestay Tension	Aft	Spreaders	2
Inner Stay	Adjustable	Runners/Checkstays	1
Carbon Mast	No	Jib Furler	No
Fiber Rigging	No	Main Furler	No
Non-Circular Rigging	No		
Articulated Bowsprit	No		
P	13.000	E	3.600
IG	14.830	J	4.580
ISP	14.830	SFJ	0.360
BAS	1.520	SPL	0.000
FSD	0.030	TPS	5.610
MDT1	0.138	MW	
MDL1	0.207	GO	
MDT2		BD	0.126
MDL2		MWT	
TL	-2.000	MCG	

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date	07/03/2015	SG	1.0250
FFM	1.155	FF	1.156
FAM	1.035	FA	1.036
SFFP	0.502	SAFP	9.900
LCF from stem on CL / on sheer	6.354 / 6.586		
Maximum beam station from stem	6.866		
RM Measured	132.7kg-m		
RM Default	128.8kg-m		
Limit of positive stability / Stab.Index	118.0° / 122.3		
Freeboard at mast at 4.940	1.036		



ORC
Offshore Racing Congress
World leader in rating technology

2020
Measurements
Datasheet

MIZZEN RIG AND SAILS			
N/A			

PROPELLER			
Installation	Shaft exposed	PRD	0.510
Type	Feathering 3 blades	PBW	0.190
Twin Screw	No	PIPA	0.0035
PSA	PHL	ST3	ESL
PSD	ST1	ST4	
PHD	ST2	ST5	

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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					
3	0.13	0.73	1.35	2.30	3.03	27.76		27/02/2019	QUANTUM	Technora						
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
4	0.07	0.75	1.45	2.94	4.49	6.17	14.30	135%	43.01		No		27/02/2019	QUANTUM	Technor	
5	0.04	0.50	1.00	2.00	3.02	4.04	14.17	88%	28.53		Yes		07/03/2019	QUANTUM	Nylon	
3	0.06	0.47	0.91	1.88	2.99	4.13	14.36	90%	28.39		No		14/11/2017	QUANTUM	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				
1	16.25	13.89	15.07	9.05	9.98	115.99	asym		14/11/2017	QUANTUM	Nylon					
2	15.95	13.51	14.73	7.96	8.30	98.55	asym		27/02/2019	QUANTUM	Nylon					

MEASUREMENT INVENTORY				
Measurer GRE-104				
Date 07/03/2015				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Maker	Model	
1	Engine	YANMAR	53HP	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
2	Tank	WATER	STEEL	120.0	6.80			0-0 (P)
1	Tank	FUEL	INOX	100.0	6.65			20-0 (S)
Id	Item	Weight	Distance	VCG Description				
2	Battery	20.0	7.75	100 AH (S)				
1	Battery	20.0	7.45	100 AH (S)				
3	Misc	10.0	7.00	SPRAYHOOD				
2	Misc	25.0	9.00	BIMINI + PANEL				
1	Misc	10.0	9.20	BOILER (S)				

2020

ORC Club Certificate Appendix

BOAT			
Name	CHRISTINA	Certificate Number	00925
Sail Nr	GRE-1604	Issued On	18/05/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1136.1	951.9	847.9	782.6	749.9	734.2	726.5
52°	745.0	637.0	569.5	538.8	523.9	516.4	510.3
60°	706.7	606.4	549.4	525.0	511.5	502.3	494.3
75°	680.6	583.1	535.6	513.9	500.1	489.4	474.5
90°	682.8	569.8	521.0	502.9	494.5	484.3	462.8
110°	666.9	554.4	511.3	489.1	471.0	458.2	443.0
120°	687.5	566.0	516.0	491.6	471.5	452.6	426.7
135°	764.8	621.5	538.5	506.0	484.7	464.9	429.6
150°	895.3	720.4	608.3	548.8	522.3	503.1	473.3
Run VMG	1033.8	831.9	702.4	633.7	601.4	552.8	502.3
Selected Courses							
Windward / Leeward	1085.0	891.9	775.1	708.2	675.7	643.5	614.4
Circular Random	919.2	743.6	649.7	595.6	562.9	542.1	517.2
Coastal / Long Distance	1079.8	836.7	696.4	614.9	574.8	541.2	493.0
Non Spinnaker	995.9	797.3	688.4	623.6	583.3	557.4	527.7

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	42.8°	41.3°	40.9°	41.3°	40.5°	39.6°	39.2°
Beat VMG	3.17	3.78	4.25	4.60	4.80	4.90	4.95
52°	4.83	5.65	6.32	6.68	6.87	6.97	7.05
60°	5.09	5.94	6.55	6.86	7.04	7.17	7.28
75°	5.29	6.17	6.72	7.00	7.20	7.36	7.59
90°	5.27	6.32	6.91	7.16	7.28	7.43	7.78
110°	5.40	6.49	7.04	7.36	7.64	7.86	8.13
120°	5.24	6.36	6.98	7.32	7.64	7.95	8.44
135°	4.71	5.79	6.68	7.11	7.43	7.74	8.38
150°	4.02	5.00	5.92	6.56	6.89	7.16	7.61
Run VMG	3.48	4.33	5.13	5.68	5.99	6.51	7.17
Gybe Angles	146.0°	147.5°	146.0°	148.5°	151.0°	176.0°	178.0°