



## 2020 ORC Club Certificate

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



**Certificate**  
 Number **00925**  
 Issued On **14/07/2020**  
 ORC Ref **03420000MHT**  
 VPP Ver. **2020 1.02**  
 Valid until **28/02/2021**

**Crew Weight**

Default	627kg
Maximum	<b>500kg</b>
Minimum*	<b>375kg</b>

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

**Special Scoring**

ToD	ToT
Non Spin GPH <b>710.4</b>	<b>0.8446</b>
Non Spin OSN <b>687.7</b>	<b>0.8725</b>

**Sails Limitations**

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

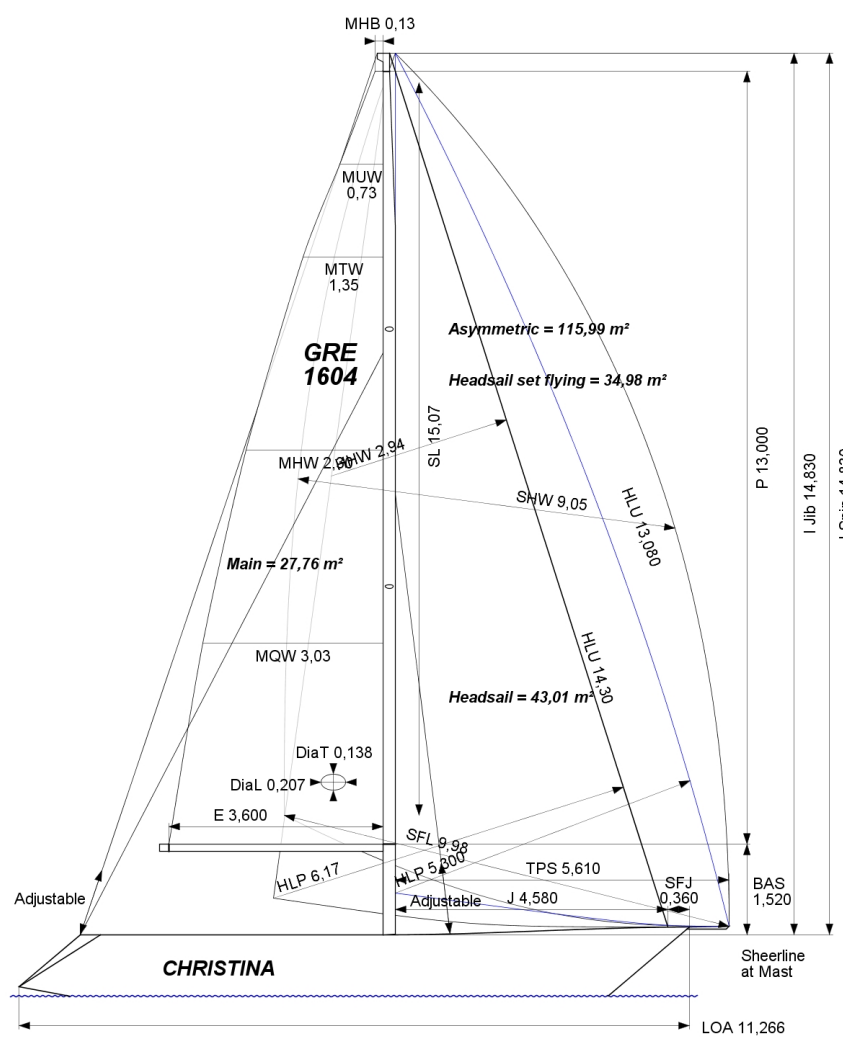
**Asymmetric on centerline**

**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**



<b>BOAT</b> Name <b>CHRISTINA</b> Sail Nr <b>GRE-1604</b>		<b>GPH</b> <b>669.5</b>	<b>HULL</b> Data File <b>GR1604</b> LOA <b>11.266m</b> Offset File <b>GR0004.BOF</b> MB <b>3.702m</b> Displacement <b>7,850kg</b> Draft <b>1.997m</b> IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.557%</b> Plan Review Construction <b>Solid</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>No</b> Light Stanchions <b>No</b> IMSL <b>9.257m</b> VCGD <b>-0.036m</b> Sink <b>18.76kg/mm</b> RL <b>7.281m</b> VCGM <b>-0.022m</b> WS <b>27.29m²</b> LSM0 <b>9.362m</b> Displacement/Length ratio <b>9.5667</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>					
<b>CLASS</b> Class <b>OYSTER 37</b> Designer <b>HOLMAN &amp; PYE</b> Builder <b>OYSTER MARINE</b> Series <b>01/1978</b> Age Date <b>01/1979</b> Age Allowance <b>0.487%</b>		<b>COMMENTS</b>						
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.510</b> Type <b>Feathering 3 blades</b> PBW <b>0.190</b> PIPA <b>0.0035</b>		<b>CENTERBOARD</b> <b>N/A</b>						
<b>SCORING OPTIONS</b>								
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>				
Time on Distance	<b>651.9</b>			<b>731.4</b>				
Time on Time	<b>0.9204</b>			<b>0.9228</b>				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	<b>766.5</b>	<b>593.2</b>	<b>532.3</b>	<b>988.3</b>	<b>737.6</b>	<b>640.5</b>		
Time on Time	<b>0.8806</b>	<b>1.1379</b>	<b>1.2682</b>	<b>0.6830</b>	<b>0.9151</b>	<b>1.0539</b>		

<b>BOAT</b>			
Name	CHRISTINA	Sail Nr	GRE-1604
File	GR1604	Data in	meters/kilograms
<b>RIG</b>			
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	

<b>INCLINING TEST AND FREEBOARDS</b>			
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

<b>MIZZEN RIG AND SAILS</b>			
N/A			

<b>PROPELLER</b>			
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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<b>COMMENTS</b>			

<b>MOVABLE BALLAST</b>			
N/A			

<b>CENTERBOARD</b>			
N/A			

<b>SAILS INVENTORY</b>																
<b>MAINSAIL (1)</b>																
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						
<b>HEADSAILS (4)</b>																
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	N	No		27/02/2019	QUANTUM	Technor	
6	0.03	0.69	1.35	2.67	4.02	5.30	13.08	116%	34.98	N	Yes		01/07/2020	HOOD	Nylon	
5	0.04	0.50	1.00	2.00	3.02	4.04	14.17	88%	28.53	N	Yes		07/03/2019	QUANTUM	Nylon	
3	0.06	0.47	0.91	1.88	2.99	4.13	14.36	90%	28.39	N	No		14/11/2017	QUANTUM	Dacron	
<b>SYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
<b>ASYMMETRIC SPINNAKERS (3)</b>																
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					
3	15.77	12.81	14.29	7.60	8.58	92.84	asym		01/07/2020	QUANTUM	Nylon					

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

<b>MEASUREMENT INVENTORY</b>								
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

<b>BOAT</b>	
Name	<b>CHRISTINA</b>
Sail Nr	<b>GRE-1604</b>
Certificate Number	<b>00925</b>
Issued On	<b>14/07/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1136.0</b>	<b>951.8</b>	<b>847.8</b>	<b>782.6</b>	<b>750.0</b>	<b>734.3</b>	<b>725.8</b>
52°	<b>745.0</b>	<b>636.9</b>	<b>569.5</b>	<b>538.8</b>	<b>523.9</b>	<b>515.2</b>	<b>508.2</b>
60°	<b>706.7</b>	<b>606.3</b>	<b>549.4</b>	<b>525.0</b>	<b>511.0</b>	<b>501.4</b>	<b>492.5</b>
75°	<b>680.5</b>	<b>583.1</b>	<b>535.6</b>	<b>513.9</b>	<b>500.1</b>	<b>489.5</b>	<b>474.2</b>
90°	<b>682.7</b>	<b>569.7</b>	<b>521.0</b>	<b>502.9</b>	<b>494.6</b>	<b>484.3</b>	<b>462.8</b>
110°	<b>666.8</b>	<b>554.4</b>	<b>511.3</b>	<b>489.1</b>	<b>471.0</b>	<b>458.3</b>	<b>443.1</b>
120°	<b>687.4</b>	<b>565.9</b>	<b>516.0</b>	<b>491.6</b>	<b>471.4</b>	<b>452.5</b>	<b>426.7</b>
135°	<b>764.7</b>	<b>621.4</b>	<b>538.5</b>	<b>506.0</b>	<b>484.7</b>	<b>464.8</b>	<b>429.5</b>
150°	<b>895.2</b>	<b>720.4</b>	<b>608.2</b>	<b>548.8</b>	<b>522.2</b>	<b>503.1</b>	<b>473.2</b>
Run VMG	<b>1033.7</b>	<b>831.8</b>	<b>702.3</b>	<b>633.7</b>	<b>601.4</b>	<b>552.8</b>	<b>502.3</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1084.8</b>	<b>891.8</b>	<b>775.0</b>	<b>708.1</b>	<b>675.7</b>	<b>643.5</b>	<b>614.0</b>
Circular Random	<b>919.1</b>	<b>743.5</b>	<b>649.6</b>	<b>595.6</b>	<b>562.8</b>	<b>541.8</b>	<b>516.6</b>
Coastal / Long Distance	<b>1079.7</b>	<b>836.6</b>	<b>696.3</b>	<b>614.9</b>	<b>574.8</b>	<b>541.0</b>	<b>492.5</b>
Non Spinnaker	<b>995.8</b>	<b>797.2</b>	<b>688.3</b>	<b>623.6</b>	<b>583.3</b>	<b>557.4</b>	<b>527.8</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>42.8°</b>	<b>41.3°</b>	<b>40.9°</b>	<b>41.3°</b>	<b>40.5°</b>	<b>39.6°</b>	<b>39.8°</b>
Beat VMG	<b>3.17</b>	<b>3.78</b>	<b>4.25</b>	<b>4.60</b>	<b>4.80</b>	<b>4.90</b>	<b>4.96</b>
52°	<b>4.83</b>	<b>5.65</b>	<b>6.32</b>	<b>6.68</b>	<b>6.87</b>	<b>6.99</b>	<b>7.08</b>
60°	<b>5.09</b>	<b>5.94</b>	<b>6.55</b>	<b>6.86</b>	<b>7.04</b>	<b>7.18</b>	<b>7.31</b>
75°	<b>5.29</b>	<b>6.17</b>	<b>6.72</b>	<b>7.00</b>	<b>7.20</b>	<b>7.36</b>	<b>7.59</b>
90°	<b>5.27</b>	<b>6.32</b>	<b>6.91</b>	<b>7.16</b>	<b>7.28</b>	<b>7.43</b>	<b>7.78</b>
110°	<b>5.40</b>	<b>6.49</b>	<b>7.04</b>	<b>7.36</b>	<b>7.64</b>	<b>7.86</b>	<b>8.13</b>
120°	<b>5.24</b>	<b>6.36</b>	<b>6.98</b>	<b>7.32</b>	<b>7.64</b>	<b>7.96</b>	<b>8.44</b>
135°	<b>4.71</b>	<b>5.79</b>	<b>6.69</b>	<b>7.11</b>	<b>7.43</b>	<b>7.74</b>	<b>8.38</b>
150°	<b>4.02</b>	<b>5.00</b>	<b>5.92</b>	<b>6.56</b>	<b>6.89</b>	<b>7.16</b>	<b>7.61</b>
Run VMG	<b>3.48</b>	<b>4.33</b>	<b>5.13</b>	<b>5.68</b>	<b>5.99</b>	<b>6.51</b>	<b>7.17</b>
Gybe Angles	<b>146.0°</b>	<b>147.5°</b>	<b>146.0°</b>	<b>148.5°</b>	<b>151.0°</b>	<b>176.0°</b>	<b>178.0°</b>