



**2020**  
ORC Club  
Certificate

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



**Certificate**  
Number **00164**  
Issued On **30/06/2020**  
ORC Ref **03420000LNB**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**

Default	424kg
Maximum	<b>424kg</b>
Minimum*	<b>318kg</b>

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

**Special Scoring**

ToD	ToT
Non Spin GPH <b>799.2</b>	<b>0.7508</b>
Non Spin OSN <b>771.4</b>	<b>0.7778</b>

**Sails Limitations**

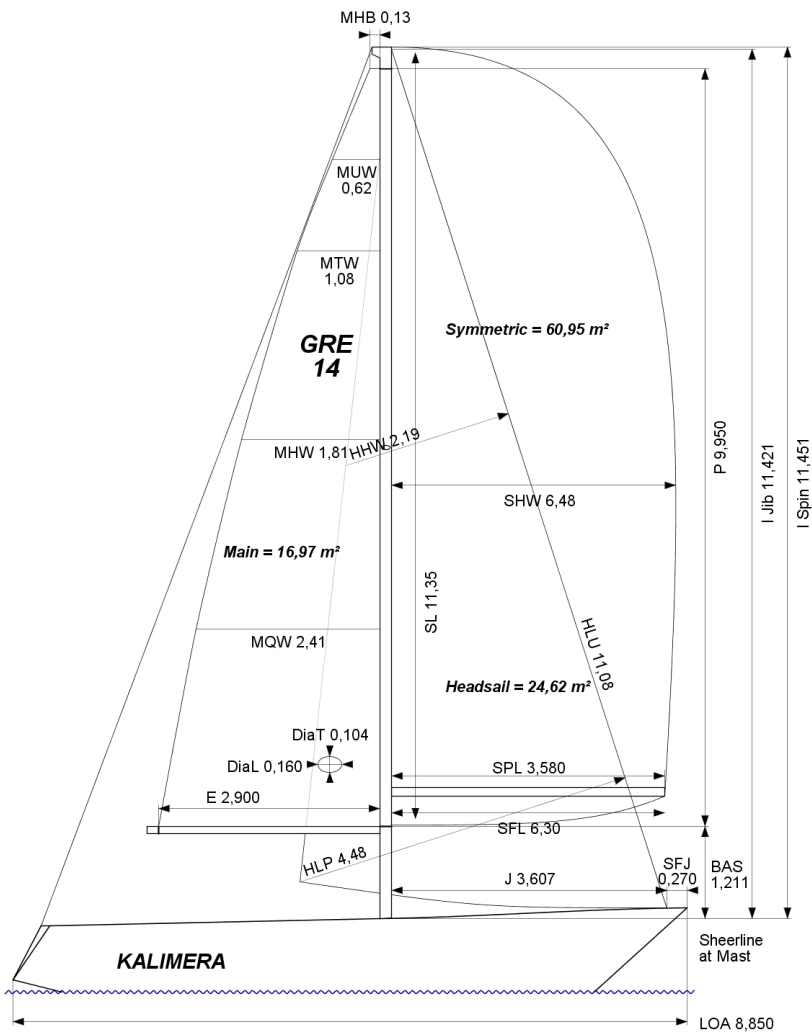
Headsails **5** Spinnakers **4**

**Spinnaker configuration**  
Symmetric: **Yes** **60.95**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

**Class Division Length**  
CDL = **6.266**

**Stability (Measured)**  
Limit Positive Stab.: **116.3°**  
Stability Index: **117.5**

**Owner**



<b>BOAT</b> Name <b>KALIMERA</b> Sail Nr <b>GRE-14</b>		<b>GPH</b> <b>756.9</b>	<b>HULL</b> Data File <b>GR14</b> LOA <b>8.850m</b> Offset File <b>GR0033E.OFF</b> MB <b>2.970m</b> Displacement <b>3,895kg</b> Draft <b>1.650m</b> IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.643%</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>7.106m</b> VCGD <b>-0.046m</b> Sink <b>11.90kg/mm</b> RL <b>5.432m</b> VCGM <b>0.043m</b> WS <b>17.82m²</b> LSM0 <b>7.117m</b> Displacement/Length ratio <b>10.8048</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>																																							
<b>CLASS</b> Class <b>YCA 29</b> Designer <b>J. EVERITT</b> Builder <b>THAMES MARINE</b> Series <b>02/1978</b> Age Date <b>02/1978</b> Age Allowance <b>0.487%</b>		<table border="1"> <tr><td colspan="7"><b>COMMENTS</b></td></tr> <tr><td colspan="7"><b>PROPELLER</b></td></tr> <tr><td>Installation</td><td><b>Shaft exposed</b></td><td>PRD</td><td><b>0.340</b></td><td colspan="3"></td></tr> <tr><td>Type</td><td><b>Folding 2 blades</b></td><td>PBW</td><td><b>0.116</b></td><td colspan="3"></td></tr> <tr><td></td><td></td><td>PIPA</td><td><b>0.0041</b></td><td colspan="3"></td></tr> </table>						<b>COMMENTS</b>							<b>PROPELLER</b>							Installation	<b>Shaft exposed</b>	PRD	<b>0.340</b>				Type	<b>Folding 2 blades</b>	PBW	<b>0.116</b>						PIPA	<b>0.0041</b>			
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<b>SCORING OPTIONS</b>		<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>																																					
Time on Distance	<b>734.6</b>			<b>818.3</b>																																						
Time on Time	<b>0.8167</b>			<b>0.8249</b>																																						
Triple Number	Low	Medium	High	Low	Medium	High																																				
Time on Distance	<b>870.5</b>	<b>670.0</b>	<b>596.1</b>	<b>1117.9</b>	<b>826.3</b>	<b>710.2</b>																																				
Time on Time	<b>0.7754</b>	<b>1.0075</b>	<b>1.1324</b>	<b>0.6038</b>	<b>0.8169</b>	<b>0.9505</b>																																				
<b>CENTERBOARD</b> N/A																																										

<b>BOAT</b>	
Name <b>KALIMERA</b>	Sail Nr <b>GRE-14</b>
File <b>GR14</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>18/11/2016</b>		SG <b>1.0290</b>	
FFM <b>1.093</b>	FF <b>1.092</b>	SFFP <b>0.500</b>	
FAM <b>0.865</b>	FA <b>0.864</b>	SAFP <b>8.362</b>	
W1 <b>44.7</b>	PD1 <b>288.0</b>	WD <b>8.930</b>	
W2 <b>44.7</b>	PD2 <b>288.0</b>	GSA <b>78.5</b>	
W3 <b>44.7</b>	PD3 <b>288.0</b>	RSA <b>6647.6</b>	
W4 <b>44.7</b>	PD4 <b>288.0</b>	PLM <b>2210.0</b>	
LCF from stem on CL / on sheer		<b>5.074 / 5.266</b>	
Maximum beam station from stem		<b>5.385</b>	
RM Measured		<b>53.0kg-m</b>	
RM Default		<b>55.9kg-m</b>	
Limit of positive stability / Stab.Index		<b>116.3° / 117.5</b>	
Freeboard at mast at 3.877		<b>0.968</b>	



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Offshore Racing Congress  
World leader in rating technology

**2020**  
Measurements  
Datasheet

<b>RIG</b>			
Forestay Tension <b>Fixed</b>	Spreaders <b>1</b>		
Inner Stay <b>None Fitted</b>	Runners/Checkstays <b>0</b>		
Carbon Mast <b>No</b>	Jib Furler <b>No</b>		
Fiber Rigging <b>No</b>	Main Furler <b>No</b>		
Non-Circular Rigging <b>No</b>			
Articulated Bowsprit <b>No</b>			
P <b>9.950</b>	E <b>2.900</b>	MDT1 <b>0.104</b>	MW <b>0.160</b>
IG <b>11.421</b>	J <b>3.607</b>	MDL1 <b>0.160</b>	GO <b>0.180</b>
ISP <b>11.451</b>	SFJ <b>0.270</b>	MDT2 <b>0.104</b>	BD <b>0.095</b>
BAS <b>1.211</b>	SPL <b>3.580</b>	MDL2 <b>0.160</b>	MWT <b>80.00</b>
FSD <b>0.000</b>	TPS	TL <b>0.000</b>	MCG <b>4.558</b>

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

<b>PROPELLER</b>			
Installation <b>Shaft exposed</b>	PRD <b>0.340</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.116</b>		
Twin Screw <b>No</b>	PIPA <b>0.0041</b>		
PSA <b>29.500</b>	PHL <b>0.110</b>	ST3 <b>0.120</b>	ESL <b>0.670</b>
PSD <b>0.025</b>	ST1 <b>0.015</b>	ST4 <b>0.040</b>	
PHD <b>0.040</b>	ST2 <b>0.120</b>	ST5 <b>0.138</b>	

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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					
1	0.13	0.62	1.08	1.81	2.41	16.98		08/07/2009	KAKITSIS	Dacron						
<b>HEADSAILS (1)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.05	0.55	1.08	2.19	3.35	4.48	11.08	124%	24.62		No		05/04/2017		Unknown	
<b>SYMMETRIC SPINNAKERS (2)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11.35	11.35	11.35	6.48	6.30	60.95		08/07/2009	KAKITSIS	Nylon						
3	11.45	11.40	11.43	6.30	6.28	59.95		20/04/2016	SHERET	Unknown						
<b>ASYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>GRE-116</b>				
Date <b>18/11/2016</b>				
Comment				
<b>Internal Ballast total = 0.0</b>				
Id	Item	Weight	Distance	VCG Description
Id	Item	Weight	Description	

<b>MEASUREMENT INVENTORY</b>								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
2	Tank	WATER	PVC HARD	100.0	5.00	-0.15	0-0	
1	Tank	FUEL	INOX	30.0	6.61	0.26	0-0	
Id	Item	Weight	Distance	VCG Description				
1	Battery		6.60	-0.10 45 AH				
2	Battery		6.60	-0.10 45 AH				
3	Battery		6.10	0.00 65 AH				

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>KALIMERA</b>
Sail Nr	<b>GRE-14</b>
Certificate Number	<b>00164</b>
Issued On	<b>30/06/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1319.8</b>	<b>1107.3</b>	<b>988.8</b>	<b>906.0</b>	<b>861.3</b>	<b>845.1</b>	<b>846.9</b>
52°	<b>859.7</b>	<b>731.9</b>	<b>655.0</b>	<b>614.6</b>	<b>595.2</b>	<b>585.7</b>	<b>582.4</b>
60°	<b>814.0</b>	<b>692.9</b>	<b>627.4</b>	<b>596.9</b>	<b>580.1</b>	<b>569.5</b>	<b>563.1</b>
75°	<b>784.3</b>	<b>665.4</b>	<b>608.5</b>	<b>583.0</b>	<b>566.2</b>	<b>552.7</b>	<b>534.3</b>
90°	<b>777.2</b>	<b>645.5</b>	<b>588.2</b>	<b>564.8</b>	<b>555.2</b>	<b>546.4</b>	<b>519.4</b>
110°	<b>758.5</b>	<b>629.2</b>	<b>578.8</b>	<b>552.0</b>	<b>529.3</b>	<b>511.7</b>	<b>495.0</b>
120°	<b>779.4</b>	<b>642.4</b>	<b>584.1</b>	<b>555.5</b>	<b>530.9</b>	<b>508.4</b>	<b>479.1</b>
135°	<b>848.2</b>	<b>697.3</b>	<b>608.3</b>	<b>571.8</b>	<b>546.7</b>	<b>522.4</b>	<b>482.0</b>
150°	<b>983.3</b>	<b>788.7</b>	<b>672.3</b>	<b>602.3</b>	<b>570.8</b>	<b>547.7</b>	<b>504.3</b>
Run VMG	<b>1135.4</b>	<b>909.6</b>	<b>773.1</b>	<b>679.3</b>	<b>613.7</b>	<b>578.5</b>	<b>533.6</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1227.6</b>	<b>1008.4</b>	<b>881.0</b>	<b>792.6</b>	<b>737.5</b>	<b>711.8</b>	<b>690.3</b>
Circular Random	<b>1043.6</b>	<b>842.7</b>	<b>734.4</b>	<b>671.1</b>	<b>632.4</b>	<b>608.1</b>	<b>580.5</b>
Coastal / Long Distance	<b>1218.3</b>	<b>945.2</b>	<b>791.2</b>	<b>693.4</b>	<b>641.5</b>	<b>606.6</b>	<b>552.9</b>
Non Spinnaker	<b>1119.2</b>	<b>896.6</b>	<b>774.5</b>	<b>701.9</b>	<b>656.7</b>	<b>628.0</b>	<b>595.5</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>43.5°</b>	<b>42.0°</b>	<b>42.0°</b>	<b>42.0°</b>	<b>40.9°</b>	<b>40.9°</b>	<b>41.4°</b>
Beat VMG	<b>2.73</b>	<b>3.25</b>	<b>3.64</b>	<b>3.97</b>	<b>4.18</b>	<b>4.26</b>	<b>4.25</b>
52°	<b>4.19</b>	<b>4.92</b>	<b>5.50</b>	<b>5.86</b>	<b>6.05</b>	<b>6.15</b>	<b>6.18</b>
60°	<b>4.42</b>	<b>5.20</b>	<b>5.74</b>	<b>6.03</b>	<b>6.21</b>	<b>6.32</b>	<b>6.39</b>
75°	<b>4.59</b>	<b>5.41</b>	<b>5.92</b>	<b>6.18</b>	<b>6.36</b>	<b>6.51</b>	<b>6.74</b>
90°	<b>4.63</b>	<b>5.58</b>	<b>6.12</b>	<b>6.37</b>	<b>6.48</b>	<b>6.59</b>	<b>6.93</b>
110°	<b>4.75</b>	<b>5.72</b>	<b>6.22</b>	<b>6.52</b>	<b>6.80</b>	<b>7.04</b>	<b>7.27</b>
120°	<b>4.62</b>	<b>5.60</b>	<b>6.16</b>	<b>6.48</b>	<b>6.78</b>	<b>7.08</b>	<b>7.51</b>
135°	<b>4.24</b>	<b>5.16</b>	<b>5.92</b>	<b>6.30</b>	<b>6.58</b>	<b>6.89</b>	<b>7.47</b>
150°	<b>3.66</b>	<b>4.56</b>	<b>5.36</b>	<b>5.98</b>	<b>6.31</b>	<b>6.57</b>	<b>7.14</b>
Run VMG	<b>3.17</b>	<b>3.96</b>	<b>4.66</b>	<b>5.30</b>	<b>5.87</b>	<b>6.22</b>	<b>6.75</b>
Gybe Angles	<b>148.0°</b>	<b>152.0°</b>	<b>153.0°</b>	<b>162.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>