



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2020**  
**ORC Club**  
**Certificate**

**Rating Office**

**Hellenic Sailing Federation**  
**Offshore Committee**

**Επιτροπή**  
**Ανοικτής Θαλάσσης**  
**Ελληνικής**  
**Ιστιοπλοϊκής Ομοσπονδίας**



**Certificate**

Number **01111**  
Issued On **28/08/2020**  
ORC Ref **03420000P87**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**

Default 772kg  
Maximum **390kg**  
Minimum\* **293kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>780.9</b>	<b>0.7683</b>
Non Spin OSN	<b>748.6</b>	<b>0.8015</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 76.44**  
Flying H/S: **No**  
Spin. Pole: **Yes**

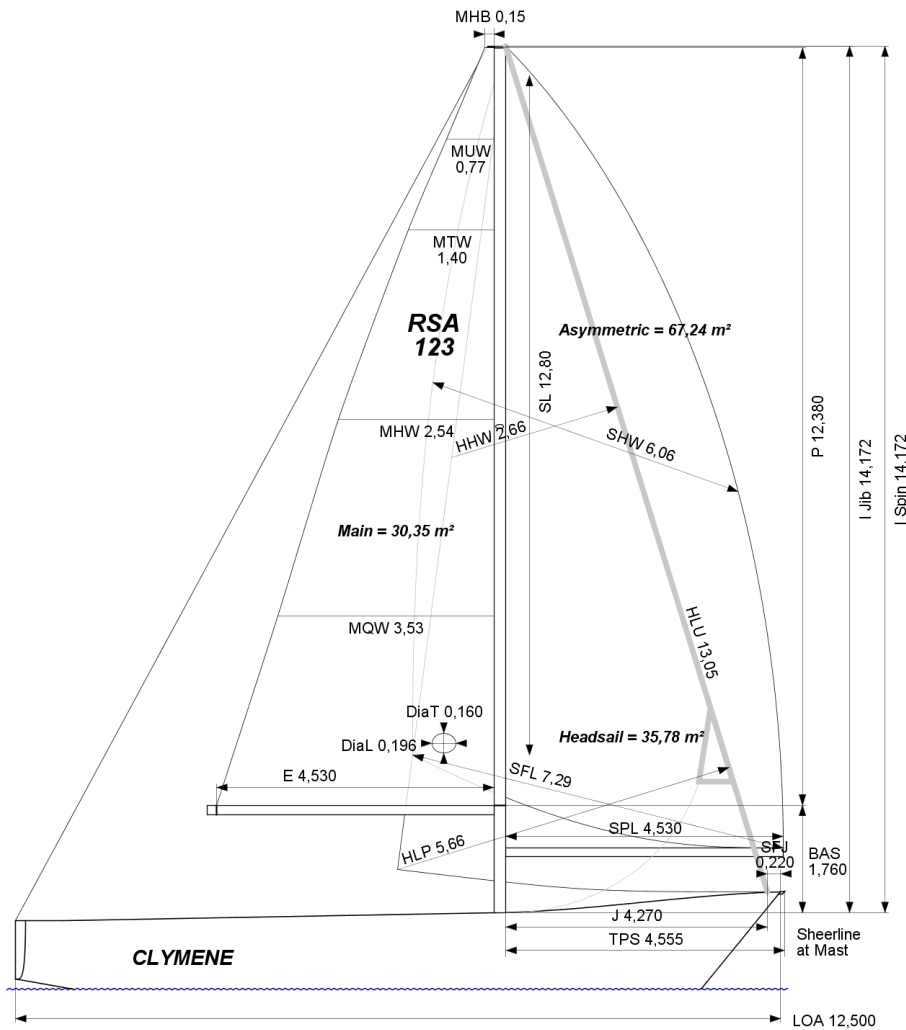
**Class Division Length**

**CDL = 8.139**

**Stability (Estimated)**

Limit Positive Stab.: **116.6°**  
Stability Index: **125.2**

**Owner**



BOAT		GPH		HULL		
Name <b>CLYMENE</b> Sail Nr <b>RSA-123</b>		<b>742.7</b>		Data File <b>RSA123</b>	LOA <b>12.500m</b>	
				Offset File <b>GIANIN15.off</b>	MB <b>3.596m</b>	
				Displacement <b>11,000kg</b>	Draft <b>1.738m</b>	
				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.646%</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>10.737m</b>	VCGD <b>0.018m</b>	
				RL <b>5.541m</b>	VCGM <b>0.051m</b>	
				WS <b>40.22m²</b>		
				LSM0 <b>10.837m</b>	Displacement/Length ratio <b>8.6430</b>	
				Water Ballast <b>0</b>	Trim Tab <b>No</b>	
				BLR Index <b>0.0000</b>		
				<b>CENTERBOARD</b>		
				<b>NA</b>		
<b>CLASS</b>						
Class <b>ONE OFF</b>						
Designer <b>SPARKMAN/STEPHENS</b>						
Builder <b>HALSTEAD LTD</b>						
Series <b>01/1979</b>						
Age Date <b>06/1979</b>						
Age Allowance <b>0.487%</b>						
<b>COMMENTS</b>						
Builder's displacement.						
<b>PROPELLER</b>						
Installation <b>In Aperture</b>		PRD <b>0.520</b>				
Type <b>Solid 3 blades</b>		PIPA <b>0.0131</b>				
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>714.6</b>			<b>812.3</b>		
Time on Time	<b>0.8397</b>			<b>0.8309</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>901.0</b>	<b>646.4</b>	<b>550.2</b>	<b>1179.0</b>	<b>823.2</b>	<b>679.5</b>
Time on Time	<b>0.7492</b>	<b>1.0443</b>	<b>1.2268</b>	<b>0.5725</b>	<b>0.8200</b>	<b>0.9934</b>

<b>BOAT</b>	
Name <b>CLYMENE</b>	Sail Nr <b>RSA-123</b>
File <b>RSA123</b>	Data in <b>meters/kilograms</b>

<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>Yes</b>
Fiber Rigging <b>No</b>	Main Furler <b>No</b>
Non-Circular Rigging <b>No</b>	
Articulated Bowsprit <b>No</b>	
P <b>12.380</b>	E <b>4.530</b> MDT1 <b>0.160</b> MW
IG <b>14.172</b>	J <b>4.270</b> MDL1 <b>0.196</b> GO
ISP <b>14.172</b>	SFJ <b>0.220</b> MDT2 <b></b> BD
BAS <b>1.760</b>	SPL <b>4.530</b> MDL2 <b></b> MWT
FSD <b>0.325</b>	TPS <b>4.555</b> TL <b>-3.000</b> MCG

<b>INCLINING TEST AND FREEBOARDS</b>	
Inclining Test <b>Club Estimated VCG</b>	
Flotation date <b>10/06/2015</b>	SG <b>1.0245</b>
FFM <b>1.551</b>	FF <b>1.551</b> SFFP <b>1.119</b>
FAM <b>1.048</b>	FA <b>1.048</b> SAFF <b>11.723</b>
LCF from stem on CL / on sheer	<b>6.961 / 7.205</b>
Maximum beam station from stem	<b>6.900</b>
RM Measured	<b>175.3kg-m</b>
RM Default	<b>170.2kg-m</b>
Limit of positive stability / Stab.Index	<b>116.6° / 125.2</b>
Freeboard at mast at 4.490	<b>1.248</b>



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**2020**  
Measurements  
Datasheet

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

<b>PROPELLER</b>	
Installation <b>In Aperture</b>	PRD <b>0.520</b>
Type <b>Solid 3 blades</b>	PBW
Twin Screw <b>No</b>	PIPA <b>0.0131</b>
APH	APT APB

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<b>COMMENTS</b>	
Builder's displacement.	

<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	0.15	0.77	1.40	2.54	3.53	30.36		30/05/2015		Dacron						
<b>HEADSAILS (2)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.66	1.30	2.66	4.12	5.66	13.05	133%	35.78	No			30/05/2015		Dacron	
3	0.03					4.10	12.23	96%	25.24	No			30/05/2015		Dacron	
<b>SYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
<b>ASYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	13.42	12.17	12.80	6.06	7.29	67.24	asy84		30/05/2015		Polyester					

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>CLYMENE</b>	Certificate Number	<b>01111</b>
Sail Nr	<b>RSA-123</b>	Issued On	<b>28/08/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1438.2</b>	<b>1143.5</b>	<b>989.6</b>	<b>897.1</b>	<b>844.1</b>	<b>820.4</b>	<b>813.7</b>
52°	<b>904.7</b>	<b>733.8</b>	<b>646.2</b>	<b>588.0</b>	<b>548.9</b>	<b>530.2</b>	<b>523.7</b>
60°	<b>833.0</b>	<b>688.1</b>	<b>609.5</b>	<b>553.8</b>	<b>519.4</b>	<b>503.4</b>	<b>496.1</b>
75°	<b>784.4</b>	<b>654.8</b>	<b>579.3</b>	<b>526.8</b>	<b>498.7</b>	<b>484.2</b>	<b>471.2</b>
90°	<b>781.6</b>	<b>637.2</b>	<b>552.3</b>	<b>502.9</b>	<b>482.0</b>	<b>472.8</b>	<b>458.9</b>
110°	<b>764.9</b>	<b>624.6</b>	<b>540.3</b>	<b>494.0</b>	<b>472.0</b>	<b>457.1</b>	<b>436.1</b>
120°	<b>794.5</b>	<b>642.7</b>	<b>554.1</b>	<b>500.7</b>	<b>476.0</b>	<b>460.2</b>	<b>431.6</b>
135°	<b>894.5</b>	<b>705.6</b>	<b>603.1</b>	<b>533.0</b>	<b>493.1</b>	<b>471.9</b>	<b>440.9</b>
150°	<b>1044.8</b>	<b>803.8</b>	<b>674.1</b>	<b>589.7</b>	<b>529.3</b>	<b>493.5</b>	<b>458.4</b>
Run VMG	<b>1206.4</b>	<b>928.1</b>	<b>774.2</b>	<b>675.7</b>	<b>602.1</b>	<b>544.5</b>	<b>481.3</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1322.3</b>	<b>1035.8</b>	<b>881.9</b>	<b>786.4</b>	<b>723.1</b>	<b>682.4</b>	<b>647.5</b>
Circular Random	<b>1068.2</b>	<b>843.3</b>	<b>717.9</b>	<b>642.1</b>	<b>594.7</b>	<b>564.9</b>	<b>533.9</b>
Coastal / Long Distance	<b>1310.7</b>	<b>967.2</b>	<b>784.5</b>	<b>667.4</b>	<b>600.1</b>	<b>556.2</b>	<b>499.0</b>
Non Spinnaker	<b>1135.7</b>	<b>891.5</b>	<b>754.2</b>	<b>670.3</b>	<b>617.0</b>	<b>582.6</b>	<b>545.0</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>47.3°</b>	<b>45.0°</b>	<b>43.5°</b>	<b>42.8°</b>	<b>43.5°</b>	<b>44.3°</b>	<b>45.2°</b>
Beat VMG	<b>2.50</b>	<b>3.15</b>	<b>3.64</b>	<b>4.01</b>	<b>4.27</b>	<b>4.39</b>	<b>4.42</b>
52°	<b>3.98</b>	<b>4.91</b>	<b>5.57</b>	<b>6.12</b>	<b>6.56</b>	<b>6.79</b>	<b>6.87</b>
60°	<b>4.32</b>	<b>5.23</b>	<b>5.91</b>	<b>6.50</b>	<b>6.93</b>	<b>7.15</b>	<b>7.26</b>
75°	<b>4.59</b>	<b>5.50</b>	<b>6.21</b>	<b>6.83</b>	<b>7.22</b>	<b>7.43</b>	<b>7.64</b>
90°	<b>4.61</b>	<b>5.65</b>	<b>6.52</b>	<b>7.16</b>	<b>7.47</b>	<b>7.61</b>	<b>7.84</b>
110°	<b>4.71</b>	<b>5.76</b>	<b>6.66</b>	<b>7.29</b>	<b>7.63</b>	<b>7.88</b>	<b>8.25</b>
120°	<b>4.53</b>	<b>5.60</b>	<b>6.50</b>	<b>7.19</b>	<b>7.56</b>	<b>7.82</b>	<b>8.34</b>
135°	<b>4.02</b>	<b>5.10</b>	<b>5.97</b>	<b>6.75</b>	<b>7.30</b>	<b>7.63</b>	<b>8.17</b>
150°	<b>3.45</b>	<b>4.48</b>	<b>5.34</b>	<b>6.10</b>	<b>6.80</b>	<b>7.29</b>	<b>7.85</b>
Run VMG	<b>2.98</b>	<b>3.88</b>	<b>4.65</b>	<b>5.33</b>	<b>5.98</b>	<b>6.61</b>	<b>7.48</b>
Gybe Angles	<b>148.0°</b>	<b>150.0°</b>	<b>154.0°</b>	<b>158.0°</b>	<b>172.0°</b>	<b>180.0°</b>	<b>180.0°</b>