



**ORC**  
Offshore Racing Congress  
World leader in rating technology

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

**Rating Office**

**Offshore**  
**Racing**  
**Congress**



**Certificate**

Number **US6255**  
Issued On **23/09/2020**  
ORC Ref **0341000QSA**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 531kg  
Maximum **525kg**  
Minimum\* **394kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

ToD ToT  
Non Spin GPH **612.3 0.9799**  
Non Spin OSN **597.4 1.0043**

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes 87.24**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

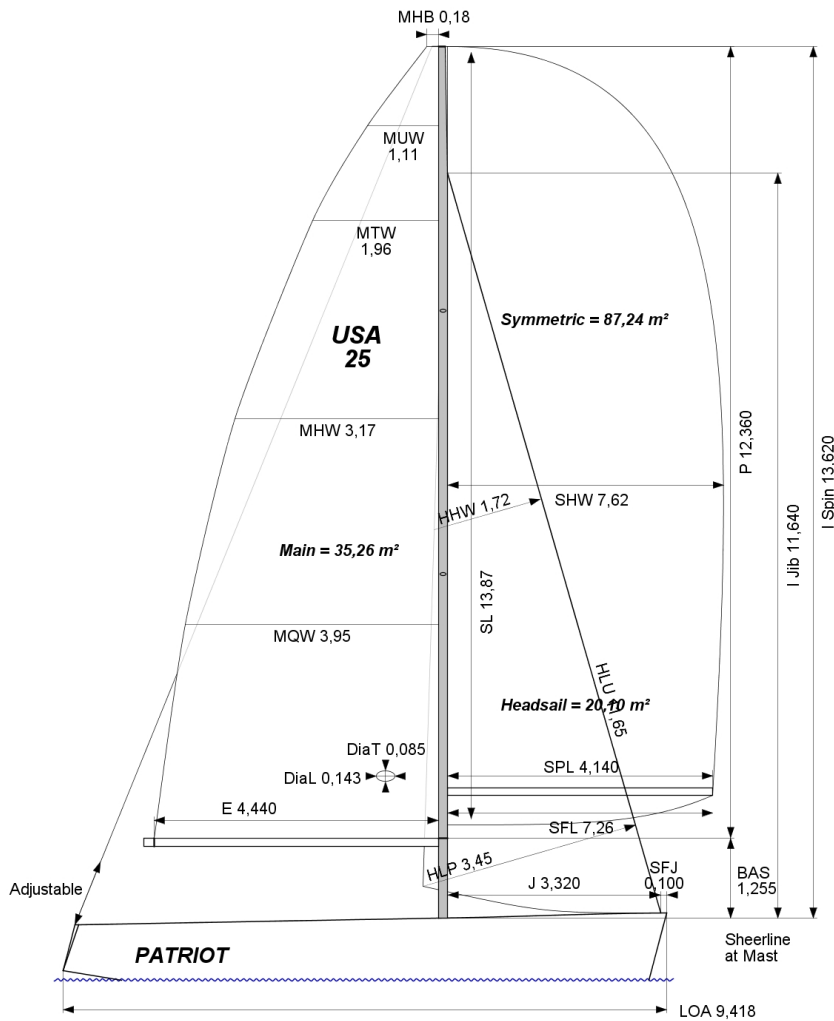
**Class Division Length**

**CDL = 8.962**

**Stability (Measured)**

Limit Positive Stab.: **135.6°**  
Stability Index: **129.0**

**Owner**



<b>BOAT</b> Name <b>Patriot</b> Sail Nr <b>USA 25</b>		<b>GPH</b> <b>574.5</b>	<b>HULL</b> Data File <b>US6255</b> LOA <b>9.418m</b> Offset File <b>US30655.OFF</b> MB <b>3.042m</b> Displacement <b>1,900kg</b> Draft <b>2.090m</b>			
<b>CLASS</b> Class <b>FARR 30</b> Designer <b>Farr</b> Builder <b>Carroll</b> Series <b>01/1996</b> Age Date <b>01/1996</b> Age Allowance <b>0.487%</b>		IMS Division <b>Performance</b> Dynamic All. <b>0.000%</b> Plan Review Construction <b>Cored</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>Yes</b> Light Stanchions <b>No</b>		IMSL <b>8.695m</b> VCGD <b>-0.453m</b> Sink <b>10.94kg/mm</b> RL <b>9.245m</b> VCGM <b>-0.481m</b> WS <b>14.71m²</b> LSM0 <b>8.332m</b> Displacement/Length ratio <b>3.2848</b>		
<b>COMMENTS</b>		Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>				
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.352</b> Type <b>Folding 2 blades</b> PBW <b>0.090</b> PIPA <b>0.0032</b>		<b>BILGEBOARD</b> BS BT BA BF BX BC BY				
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>560.0</b>			<b>628.8</b>		
Time on Time	<b>1.0713</b>			<b>1.0736</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>639.1</b>	<b>517.7</b>	<b>453.1</b>	<b>814.3</b>	<b>635.7</b>	<b>552.6</b>
Time on Time	<b>1.0561</b>	<b>1.3039</b>	<b>1.4898</b>	<b>0.8289</b>	<b>1.0619</b>	<b>1.2214</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>Patriot</b>	Certificate Number	<b>US6255</b>
Sail Nr	<b>USA 25</b>	Issued On	<b>23/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>927.9</b>	<b>768.1</b>	<b>713.1</b>	<b>694.5</b>	<b>687.1</b>	<b>674.7</b>	<b>672.8</b>
52°	<b>609.5</b>	<b>533.8</b>	<b>510.9</b>	<b>500.8</b>	<b>494.9</b>	<b>489.1</b>	<b>478.7</b>
60°	<b>577.3</b>	<b>520.4</b>	<b>495.2</b>	<b>481.0</b>	<b>472.8</b>	<b>469.3</b>	<b>453.2</b>
75°	<b>555.9</b>	<b>509.7</b>	<b>476.2</b>	<b>451.4</b>	<b>438.0</b>	<b>429.7</b>	<b>415.1</b>
90°	<b>559.2</b>	<b>508.8</b>	<b>473.2</b>	<b>438.6</b>	<b>411.8</b>	<b>394.2</b>	<b>377.1</b>
110°	<b>561.4</b>	<b>497.9</b>	<b>460.6</b>	<b>434.8</b>	<b>410.1</b>	<b>386.2</b>	<b>333.4</b>
120°	<b>572.9</b>	<b>501.6</b>	<b>453.3</b>	<b>418.5</b>	<b>393.7</b>	<b>368.7</b>	<b>325.3</b>
135°	<b>633.3</b>	<b>526.6</b>	<b>478.3</b>	<b>430.4</b>	<b>383.4</b>	<b>340.8</b>	<b>295.2</b>
150°	<b>751.0</b>	<b>601.3</b>	<b>523.6</b>	<b>480.2</b>	<b>436.9</b>	<b>393.9</b>	<b>304.6</b>
Run VMG	<b>867.2</b>	<b>694.4</b>	<b>601.6</b>	<b>546.9</b>	<b>502.7</b>	<b>454.9</b>	<b>351.8</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>897.5</b>	<b>731.2</b>	<b>657.4</b>	<b>620.7</b>	<b>594.9</b>	<b>564.8</b>	<b>512.3</b>
Circular Random	<b>773.7</b>	<b>633.6</b>	<b>559.5</b>	<b>515.4</b>	<b>485.5</b>	<b>462.2</b>	<b>425.0</b>
Coastal / Long Distance	<b>894.5</b>	<b>691.6</b>	<b>597.7</b>	<b>541.2</b>	<b>503.3</b>	<b>466.2</b>	<b>403.0</b>
Non Spinnaker	<b>842.2</b>	<b>681.5</b>	<b>594.9</b>	<b>543.2</b>	<b>509.2</b>	<b>484.6</b>	<b>448.5</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>42.4°</b>	<b>40.1°</b>	<b>37.5°</b>	<b>36.8°</b>	<b>36.4°</b>	<b>35.6°</b>	<b>36.4°</b>
Beat VMG	<b>3.88</b>	<b>4.69</b>	<b>5.05</b>	<b>5.18</b>	<b>5.24</b>	<b>5.34</b>	<b>5.35</b>
52°	<b>5.91</b>	<b>6.74</b>	<b>7.05</b>	<b>7.19</b>	<b>7.27</b>	<b>7.36</b>	<b>7.52</b>
60°	<b>6.24</b>	<b>6.92</b>	<b>7.27</b>	<b>7.48</b>	<b>7.61</b>	<b>7.67</b>	<b>7.94</b>
75°	<b>6.48</b>	<b>7.06</b>	<b>7.56</b>	<b>7.98</b>	<b>8.22</b>	<b>8.38</b>	<b>8.67</b>
90°	<b>6.44</b>	<b>7.08</b>	<b>7.61</b>	<b>8.21</b>	<b>8.74</b>	<b>9.13</b>	<b>9.55</b>
110°	<b>6.41</b>	<b>7.23</b>	<b>7.82</b>	<b>8.28</b>	<b>8.78</b>	<b>9.32</b>	<b>10.80</b>
120°	<b>6.28</b>	<b>7.18</b>	<b>7.94</b>	<b>8.60</b>	<b>9.14</b>	<b>9.76</b>	<b>11.07</b>
135°	<b>5.68</b>	<b>6.84</b>	<b>7.53</b>	<b>8.36</b>	<b>9.39</b>	<b>10.56</b>	<b>12.19</b>
150°	<b>4.79</b>	<b>5.99</b>	<b>6.88</b>	<b>7.50</b>	<b>8.24</b>	<b>9.14</b>	<b>11.82</b>
Run VMG	<b>4.15</b>	<b>5.18</b>	<b>5.98</b>	<b>6.58</b>	<b>7.16</b>	<b>7.91</b>	<b>10.23</b>
Gybe Angles	<b>143.5°</b>	<b>146.5°</b>	<b>154.5°</b>	<b>162.0°</b>	<b>155.0°</b>	<b>148.0°</b>	<b>145.3°</b>