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Offshore Racing Congress  
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**2020**  
**Club**  
**Double Handed**

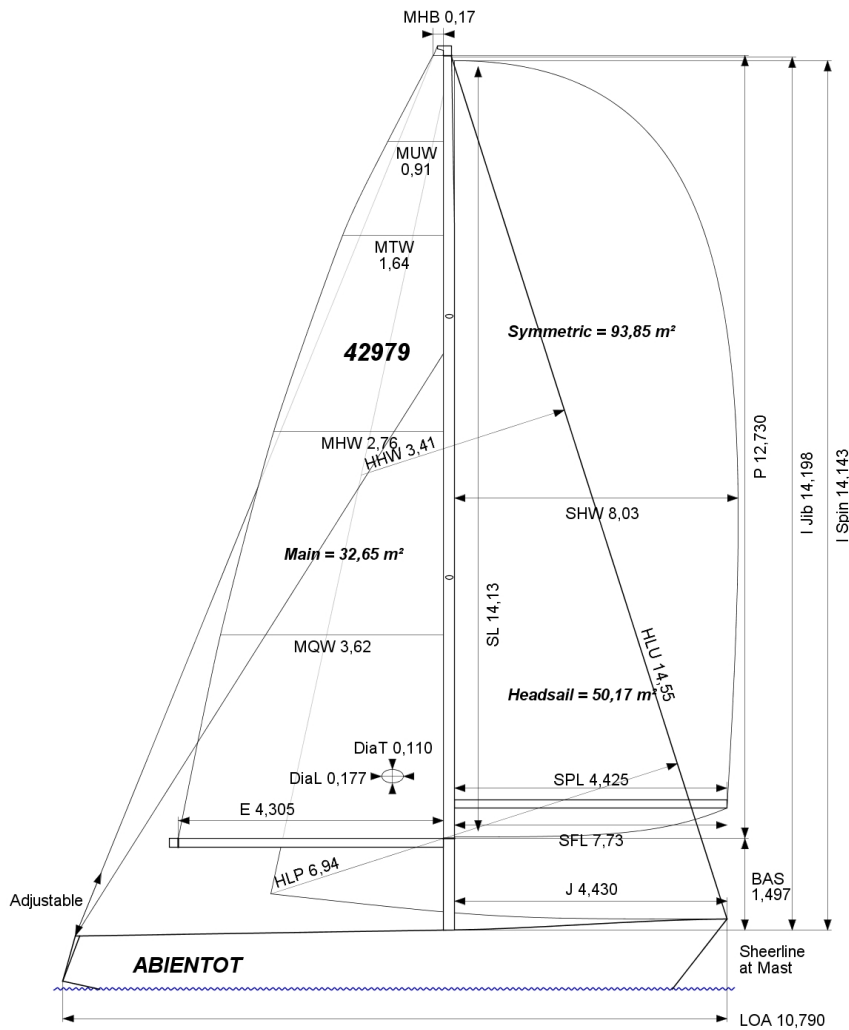
**Rating Office**

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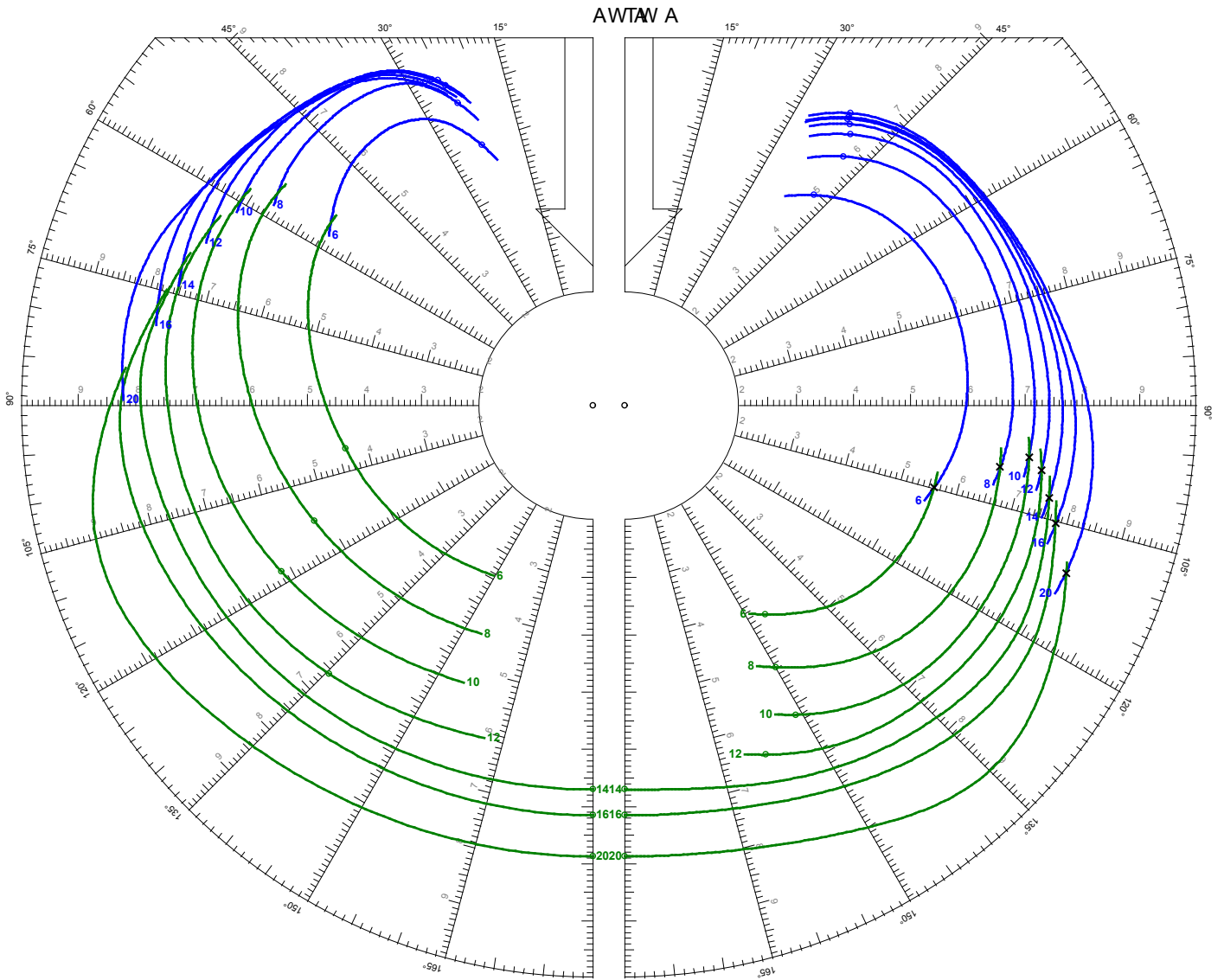


**Certificate**

Number **US6460**  
Issued On **28/09/2020**  
ORC Ref **03410000QW8**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**



<b>BOAT</b> Name <b>ABIENTOT</b> Sail Nr <b>42979</b>		<b>GPH</b> <b>628.7</b>	<b>HULL</b> Data File <b>US6460 DH</b> LOA <b>10.790m</b> Offset File <b>US17521.OFF</b> MB <b>3.639m</b> Displacement <b>4,865kg</b> Draft <b>2.130m</b>		<b>Crew Weight</b> Default <b>170kg</b> Maximum <b>170kg</b> Non Manual Pwr <b>No</b>	
<b>CLASS</b> Class <b>J-35</b> Designer <b>R. Johnstone</b> Builder <b>Tillotson-Pearson</b> Series <b>05/1983</b> Age Date <b>01/1987</b> Age Allowance <b>0.487%</b>			<b>IMS Division</b> <b>Cruiser/Racer</b> Dynamic All. <b>0.000%</b> Fiber Rigging <b>No</b> Construction <b>Cored</b> Crew Arm Ex Aramid Core <b>No</b> Carbon Rudder <b>No</b> Light Stanchions <b>No</b>		<b>Sails Limitations</b> Headsails <b>5</b> Spinnakers <b>4</b>	
<b>COMMENTS</b>			<b>IMSL</b> <b>9.209m</b> VCGD <b>-0.032m</b> Sink <b>17.71kg/mm</b> RL <b>8.254m</b> VCGM <b>0.018m</b> WS <b>23.85m²</b> LSM0 <b>9.225m</b> Displacement/Length ratio <b>6.1970</b>		<b>Spinnaker configuration</b> Symmetric: <b>Yes 93.85</b> Asymmetric: <b>No</b> Flying H/S: <b>No</b> Spin. Pole: <b>Yes</b>	
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.457</b> Type <b>Folding 2 blades</b> PBW <b>0.011</b> PIPA <b>0.0030</b>			<b>CENTERBOARD</b> <b>N/A</b>		<b>Stability (Estimated)</b> Limit Positive Stab.: <b>110.4°</b> Stability Index: <b>107.8</b>	
<b>SCORING OPTIONS</b>						
	Time on Distance	Time on Time				
Coastal or Long Distance	<b>613.9</b>	<b>0.9773</b>				
Circular Random	<b>628.7</b>	<b>0.9544</b>				
Predominantly Upwind	<b>608.2</b>	<b>0.9865</b>				
Predominantly Downwind	<b>571.9</b>	<b>1.0492</b>				
<b>Owner</b>						



<b>Polar Plot for Boat</b>
Name <b>ABIENTOT</b>
Sail Number <b>42979</b>
Class <b>J-35</b>
Designer <b>R. Johnstone</b>
Builder <b>Tillotson-Pearson</b>
Issued On <b>28/09/2020 - VPP 2020 1.02</b>

# 2020

## Double Handed Certificate Appendix

<b>BOAT</b>			
Name	<b>ABIENTOT</b>	Certificate Number	<b>US6460</b>
Sail Nr	<b>42979</b>	Issued On	<b>28/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>983.0</b>	<b>830.6</b>	<b>763.0</b>	<b>735.0</b>	<b>721.4</b>	<b>718.0</b>	<b>707.8</b>
52°	<b>653.7</b>	<b>562.3</b>	<b>530.3</b>	<b>519.4</b>	<b>514.3</b>	<b>511.4</b>	<b>508.6</b>
60°	<b>622.4</b>	<b>544.2</b>	<b>517.4</b>	<b>506.9</b>	<b>501.4</b>	<b>498.5</b>	<b>496.5</b>
75°	<b>600.3</b>	<b>532.6</b>	<b>507.3</b>	<b>492.8</b>	<b>483.6</b>	<b>478.0</b>	<b>473.1</b>
90°	<b>606.2</b>	<b>533.4</b>	<b>504.8</b>	<b>487.3</b>	<b>472.6</b>	<b>459.9</b>	<b>446.7</b>
110°	<b>649.2</b>	<b>542.5</b>	<b>502.9</b>	<b>480.3</b>	<b>466.1</b>	<b>454.1</b>	<b>437.1</b>
120°	<b>664.3</b>	<b>551.7</b>	<b>506.0</b>	<b>480.2</b>	<b>456.6</b>	<b>438.7</b>	<b>418.1</b>
135°	<b>727.3</b>	<b>592.7</b>	<b>525.6</b>	<b>494.6</b>	<b>469.6</b>	<b>444.9</b>	<b>401.2</b>
150°	<b>859.7</b>	<b>685.7</b>	<b>581.1</b>	<b>523.3</b>	<b>494.9</b>	<b>471.3</b>	<b>425.5</b>
Run VMG	<b>992.7</b>	<b>791.8</b>	<b>670.3</b>	<b>593.5</b>	<b>539.8</b>	<b>505.7</b>	<b>459.8</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>987.8</b>	<b>811.2</b>	<b>716.6</b>	<b>664.2</b>	<b>630.6</b>	<b>611.9</b>	<b>583.8</b>
Circular Random	<b>848.6</b>	<b>692.4</b>	<b>610.8</b>	<b>565.0</b>	<b>537.5</b>	<b>519.6</b>	<b>495.7</b>
Coastal / Long Distance	<b>988.3</b>	<b>764.7</b>	<b>649.7</b>	<b>584.8</b>	<b>548.8</b>	<b>521.3</b>	<b>477.3</b>
Non Spinnaker	<b>887.9</b>	<b>720.6</b>	<b>632.0</b>	<b>581.3</b>	<b>550.5</b>	<b>530.4</b>	<b>503.9</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>42.0°</b>	<b>41.3°</b>	<b>39.8°</b>	<b>38.6°</b>	<b>37.9°</b>	<b>37.9°</b>	<b>37.7°</b>
Beat VMG	<b>3.66</b>	<b>4.33</b>	<b>4.72</b>	<b>4.90</b>	<b>4.99</b>	<b>5.01</b>	<b>5.09</b>
52°	<b>5.51</b>	<b>6.40</b>	<b>6.79</b>	<b>6.93</b>	<b>7.00</b>	<b>7.04</b>	<b>7.08</b>
60°	<b>5.78</b>	<b>6.61</b>	<b>6.96</b>	<b>7.10</b>	<b>7.18</b>	<b>7.22</b>	<b>7.25</b>
75°	<b>6.00</b>	<b>6.76</b>	<b>7.10</b>	<b>7.31</b>	<b>7.44</b>	<b>7.53</b>	<b>7.61</b>
90°	<b>5.94</b>	<b>6.75</b>	<b>7.13</b>	<b>7.39</b>	<b>7.62</b>	<b>7.83</b>	<b>8.06</b>
110°	<b>5.55</b>	<b>6.64</b>	<b>7.16</b>	<b>7.50</b>	<b>7.72</b>	<b>7.93</b>	<b>8.24</b>
120°	<b>5.42</b>	<b>6.53</b>	<b>7.11</b>	<b>7.50</b>	<b>7.88</b>	<b>8.21</b>	<b>8.61</b>
135°	<b>4.95</b>	<b>6.07</b>	<b>6.85</b>	<b>7.28</b>	<b>7.67</b>	<b>8.09</b>	<b>8.97</b>
150°	<b>4.19</b>	<b>5.25</b>	<b>6.19</b>	<b>6.88</b>	<b>7.27</b>	<b>7.64</b>	<b>8.46</b>
Run VMG	<b>3.63</b>	<b>4.55</b>	<b>5.37</b>	<b>6.07</b>	<b>6.67</b>	<b>7.12</b>	<b>7.83</b>
Gybe Angles	<b>146.0°</b>	<b>150.0°</b>	<b>151.0°</b>	<b>158.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>