



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

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

**Rating Office**

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



**Certificate**

Number **055/20**  
Issued On **09/06/2020**  
ORC Ref **03880000K90**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 643kg  
Maximum **745kg**  
Minimum\* **559kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>663.2</b>	<b>0.9047</b>
Non Spin OSN	<b>641.9</b>	<b>0.9348</b>

**Sails Limitations**

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

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **Yes** 97.27  
Asymmetric: **Yes** 101.91  
Flying H/S: **No**  
Spin. Pole: **Yes**

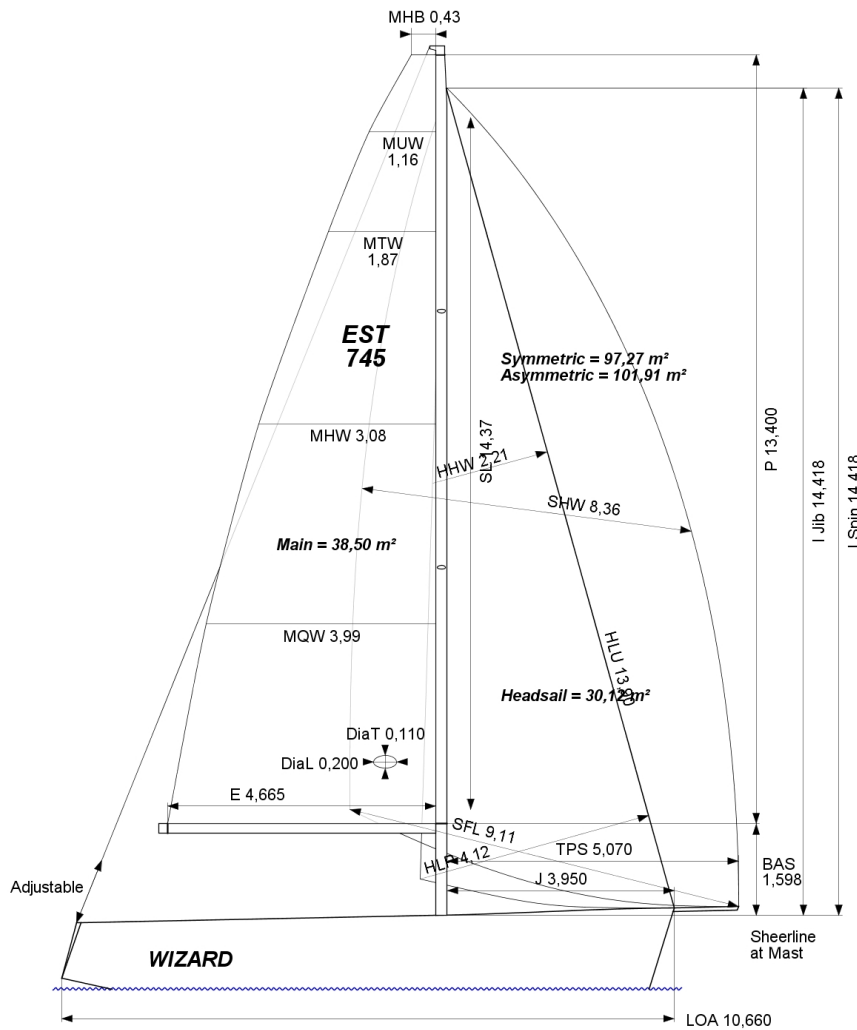
**Class Division Length**

**CDL = 9.093**

**Stability (Estimated)**

Limit Positive Stab.: **123.6°**  
Stability Index: **123.3**

**Owner**



BOAT	GPH	HULL
Name <b>WIZARD</b> Sail Nr <b>EST 745</b>	<b>624.4</b>	Data File <b>EST745</b> LOA <b>10.660m</b> Offset File <b>F242.OFF</b> MB <b>3.636m</b> Displacement <b>5,540kg</b> Draft <b>2.199m</b>
<b>CLASS</b> Class <b>First 35</b> Designer <b>Bruce Farr</b> Builder <b>Beneteau</b> Series <b>02/2009</b> Age Date <b>01/2010</b> Age Allowance <b>0.357%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.194%</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>COMMENTS</b>		IMSL <b>9.691m</b> VCGD <b>0.000m</b> Sink <b>19.11kg/mm</b> RL <b>8.508m</b> VCGM <b>0.003m</b> WS <b>25.97m²</b> LSM0 <b>9.536m</b> Displacement/Length ratio <b>6.3887</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.430</b> Type <b>Folding 2 blades</b> PBW <b>0.120</b> PIPA <b>0.0032</b>		Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</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>606.2</b>	<b>677.2</b>
Time on Time	<b>0.9897</b>	<b>0.9968</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>717.0 552.5 493.0</b>	<b>928.2 680.2 591.0</b>
Time on Time	<b>0.9414 1.2218 1.3691</b>	<b>0.7272 0.9923 1.1421</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>WIZARD</b>	Certificate Number <b>055/20</b>
Sail Nr <b>EST 745</b>	Issued On <b>09/06/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1076.9</b>	<b>889.5</b>	<b>780.6</b>	<b>723.9</b>	<b>706.1</b>	<b>700.2</b>	<b>692.3</b>
52°	<b>701.2</b>	<b>590.3</b>	<b>531.5</b>	<b>506.4</b>	<b>496.8</b>	<b>493.2</b>	<b>490.0</b>
60°	<b>661.6</b>	<b>561.5</b>	<b>515.4</b>	<b>494.2</b>	<b>483.3</b>	<b>478.9</b>	<b>476.9</b>
75°	<b>633.8</b>	<b>541.1</b>	<b>503.5</b>	<b>483.6</b>	<b>468.9</b>	<b>457.8</b>	<b>449.0</b>
90°	<b>627.3</b>	<b>526.5</b>	<b>488.8</b>	<b>473.6</b>	<b>463.4</b>	<b>447.3</b>	<b>422.5</b>
110°	<b>621.1</b>	<b>518.8</b>	<b>481.5</b>	<b>456.6</b>	<b>434.6</b>	<b>421.4</b>	<b>401.3</b>
120°	<b>640.1</b>	<b>529.7</b>	<b>486.9</b>	<b>460.6</b>	<b>435.0</b>	<b>411.6</b>	<b>380.8</b>
135°	<b>712.8</b>	<b>577.9</b>	<b>509.1</b>	<b>478.3</b>	<b>453.4</b>	<b>428.4</b>	<b>381.7</b>
150°	<b>841.9</b>	<b>670.7</b>	<b>569.0</b>	<b>509.2</b>	<b>480.2</b>	<b>457.1</b>	<b>412.0</b>
Run VMG	<b>972.1</b>	<b>774.5</b>	<b>657.1</b>	<b>579.1</b>	<b>526.7</b>	<b>491.5</b>	<b>446.1</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1024.5</b>	<b>832.0</b>	<b>718.8</b>	<b>651.5</b>	<b>616.4</b>	<b>595.9</b>	<b>569.2</b>
Circular Random	<b>860.7</b>	<b>694.6</b>	<b>605.6</b>	<b>554.3</b>	<b>522.8</b>	<b>502.3</b>	<b>476.0</b>
Coastal / Long Distance	<b>1019.3</b>	<b>780.0</b>	<b>647.7</b>	<b>571.0</b>	<b>533.0</b>	<b>503.0</b>	<b>453.9</b>
Non Spinnaker	<b>931.5</b>	<b>744.2</b>	<b>642.2</b>	<b>582.2</b>	<b>545.3</b>	<b>521.4</b>	<b>491.4</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>43.1°</b>	<b>41.4°</b>	<b>40.9°</b>	<b>39.4°</b>	<b>38.8°</b>	<b>39.4°</b>	<b>39.4°</b>
Beat VMG	<b>3.34</b>	<b>4.05</b>	<b>4.61</b>	<b>4.97</b>	<b>5.10</b>	<b>5.14</b>	<b>5.20</b>
52°	<b>5.13</b>	<b>6.10</b>	<b>6.77</b>	<b>7.11</b>	<b>7.25</b>	<b>7.30</b>	<b>7.35</b>
60°	<b>5.44</b>	<b>6.41</b>	<b>6.99</b>	<b>7.28</b>	<b>7.45</b>	<b>7.52</b>	<b>7.55</b>
75°	<b>5.68</b>	<b>6.65</b>	<b>7.15</b>	<b>7.44</b>	<b>7.68</b>	<b>7.86</b>	<b>8.02</b>
90°	<b>5.74</b>	<b>6.84</b>	<b>7.37</b>	<b>7.60</b>	<b>7.77</b>	<b>8.05</b>	<b>8.52</b>
110°	<b>5.80</b>	<b>6.94</b>	<b>7.48</b>	<b>7.88</b>	<b>8.28</b>	<b>8.54</b>	<b>8.97</b>
120°	<b>5.62</b>	<b>6.80</b>	<b>7.39</b>	<b>7.82</b>	<b>8.28</b>	<b>8.75</b>	<b>9.45</b>
135°	<b>5.05</b>	<b>6.23</b>	<b>7.07</b>	<b>7.53</b>	<b>7.94</b>	<b>8.40</b>	<b>9.43</b>
150°	<b>4.28</b>	<b>5.37</b>	<b>6.33</b>	<b>7.07</b>	<b>7.50</b>	<b>7.88</b>	<b>8.74</b>
Run VMG	<b>3.70</b>	<b>4.65</b>	<b>5.48</b>	<b>6.22</b>	<b>6.84</b>	<b>7.32</b>	<b>8.07</b>
Gybe Angles	<b>144.0°</b>	<b>148.0°</b>	<b>150.0°</b>	<b>157.0°</b>	<b>174.0°</b>	<b>180.0°</b>	<b>180.0°</b>