



## 2020 ORC Club Certificate

### Rating Office

Offshore  
Racing  
Congress



### Certificate

Number **EST646**  
 Issued On **23/05/2020**  
 ORC Ref **03580000IN5**  
 VPP Ver. **2020 1.02**  
 Valid until **31/12/2020**

### Crew Weight

Default 618kg  
 Maximum **670kg**  
 Minimum\* **503kg**  
\*when applied by the NoR and SI  
 Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Non Spin GPH	<b>651.8</b>	<b>0.9205</b>
Non Spin OSN	<b>632.2</b>	<b>0.9490</b>

### Sails Limitations

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

**Asymmetric on centerline**

**Spinnaker configuration**  
 Symmetric: **Yes** 93.72  
 Asymmetric: **Yes** 93.02  
 Flying H/S: **No**  
 Spin. Pole: **Yes**

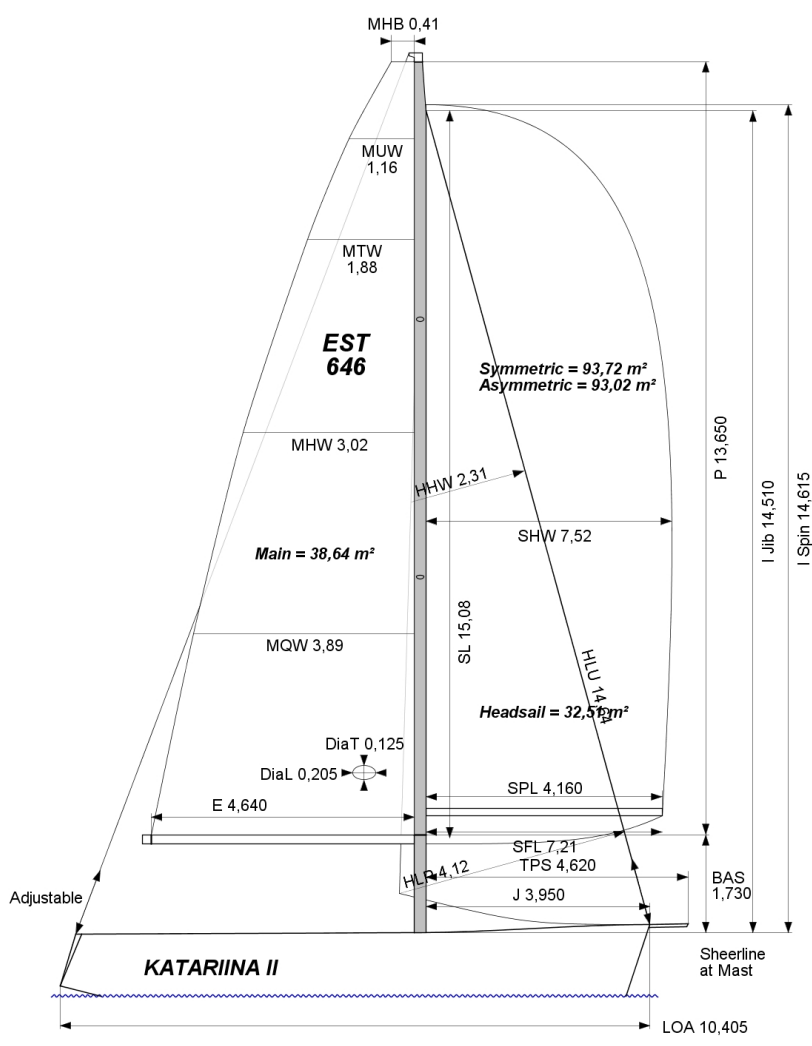
### Class Division Length

**CDL = 9.044**

### Stability (Measured)

Limit Positive Stab.: **115.8°**  
 Stability Index: **114.3**

### Owner



BOAT
Name <b>KATARIINA II</b> Sail Nr <b>EST 646</b>

GPH
<b>617.4</b>

HULL
Data File <b>Est0646</b> LOA <b>10.405m</b> Offset File <b>EST646-</b> MB <b>3.476m</b> Displacement <b>4,621kg</b> Draft <b>2.113m</b>

CLASS
Class <b>ARCONA 340</b> Designer <b>STEFAN QVIBERG</b> Builder <b>ARCONA YACHTS</b> Series <b>05/2009</b> Age Date <b>05/2010</b> Age Allowance <b>0.357%</b>

IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.124%</b> Plan Review Construction <b>Cored</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>No</b> Light Stanchions <b>No</b>
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IMSL <b>9.398m</b> VCGD <b>0.017m</b> Sink <b>18.87kg/mm</b> RL <b>8.707m</b> VCGM <b>0.023m</b> WS <b>24.98m²</b> LSM0 <b>9.274m</b> Displacement/Length ratio <b>5.7934</b>
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COMMENTS

Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>
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PROPELLER
Installation <b>Strut</b> PRD <b>0.425</b> Type <b>Folding 2 blades</b> PBW <b>0.100</b> PIPA <b>0.0033</b>

CENTERBOARD
<b>NA</b>

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>600.1</b>			<b>671.1</b>		
Time on Time	<b>0.9998</b>			<b>1.0059</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>705.6</b>	<b>547.4</b>	<b>488.7</b>	<b>910.7</b>	<b>672.2</b>	<b>588.7</b>
Time on Time	<b>0.9567</b>	<b>1.2332</b>	<b>1.3811</b>	<b>0.7412</b>	<b>1.0041</b>	<b>1.1466</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>KATARIINA II</b>	Certificate Number	<b>EST646</b>
Sail Nr	<b>EST 646</b>	Issued On	<b>23/05/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1037.3</b>	<b>855.2</b>	<b>753.9</b>	<b>715.6</b>	<b>702.7</b>	<b>698.3</b>	<b>687.7</b>
52°	<b>679.2</b>	<b>572.6</b>	<b>521.2</b>	<b>503.0</b>	<b>497.2</b>	<b>494.5</b>	<b>487.3</b>
60°	<b>641.8</b>	<b>548.8</b>	<b>508.1</b>	<b>490.2</b>	<b>482.9</b>	<b>479.4</b>	<b>472.7</b>
75°	<b>614.3</b>	<b>532.5</b>	<b>498.6</b>	<b>477.8</b>	<b>462.3</b>	<b>454.1</b>	<b>448.1</b>
90°	<b>622.5</b>	<b>525.4</b>	<b>488.1</b>	<b>471.4</b>	<b>455.4</b>	<b>437.3</b>	<b>417.0</b>
110°	<b>620.4</b>	<b>520.9</b>	<b>482.4</b>	<b>453.3</b>	<b>428.5</b>	<b>413.7</b>	<b>390.6</b>
120°	<b>640.5</b>	<b>532.9</b>	<b>489.3</b>	<b>459.0</b>	<b>430.3</b>	<b>403.9</b>	<b>367.0</b>
135°	<b>712.8</b>	<b>579.0</b>	<b>511.8</b>	<b>479.3</b>	<b>450.9</b>	<b>423.9</b>	<b>368.5</b>
150°	<b>844.7</b>	<b>671.2</b>	<b>568.1</b>	<b>510.5</b>	<b>480.7</b>	<b>454.3</b>	<b>404.6</b>
Run VMG	<b>975.4</b>	<b>775.0</b>	<b>655.3</b>	<b>579.1</b>	<b>526.5</b>	<b>492.1</b>	<b>442.1</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1006.4</b>	<b>815.1</b>	<b>704.6</b>	<b>647.4</b>	<b>614.6</b>	<b>595.2</b>	<b>564.9</b>
Circular Random	<b>848.1</b>	<b>685.6</b>	<b>599.0</b>	<b>549.2</b>	<b>518.5</b>	<b>497.9</b>	<b>469.7</b>
Coastal / Long Distance	<b>1003.3</b>	<b>766.0</b>	<b>637.2</b>	<b>567.6</b>	<b>530.3</b>	<b>499.3</b>	<b>446.8</b>
Non Spinnaker	<b>909.6</b>	<b>729.1</b>	<b>631.5</b>	<b>574.6</b>	<b>539.5</b>	<b>516.5</b>	<b>486.5</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>42.8°</b>	<b>41.3°</b>	<b>40.1°</b>	<b>38.6°</b>	<b>39.0°</b>	<b>39.0°</b>	<b>39.0°</b>
Beat VMG	<b>3.47</b>	<b>4.21</b>	<b>4.78</b>	<b>5.03</b>	<b>5.12</b>	<b>5.16</b>	<b>5.24</b>
52°	<b>5.30</b>	<b>6.29</b>	<b>6.91</b>	<b>7.16</b>	<b>7.24</b>	<b>7.28</b>	<b>7.39</b>
60°	<b>5.61</b>	<b>6.56</b>	<b>7.09</b>	<b>7.34</b>	<b>7.45</b>	<b>7.51</b>	<b>7.62</b>
75°	<b>5.86</b>	<b>6.76</b>	<b>7.22</b>	<b>7.54</b>	<b>7.79</b>	<b>7.93</b>	<b>8.03</b>
90°	<b>5.78</b>	<b>6.85</b>	<b>7.38</b>	<b>7.64</b>	<b>7.91</b>	<b>8.23</b>	<b>8.63</b>
110°	<b>5.80</b>	<b>6.91</b>	<b>7.46</b>	<b>7.94</b>	<b>8.40</b>	<b>8.70</b>	<b>9.22</b>
120°	<b>5.62</b>	<b>6.76</b>	<b>7.36</b>	<b>7.84</b>	<b>8.37</b>	<b>8.91</b>	<b>9.81</b>
135°	<b>5.05</b>	<b>6.22</b>	<b>7.03</b>	<b>7.51</b>	<b>7.98</b>	<b>8.49</b>	<b>9.77</b>
150°	<b>4.26</b>	<b>5.36</b>	<b>6.34</b>	<b>7.05</b>	<b>7.49</b>	<b>7.92</b>	<b>8.90</b>
Run VMG	<b>3.69</b>	<b>4.65</b>	<b>5.49</b>	<b>6.22</b>	<b>6.84</b>	<b>7.32</b>	<b>8.14</b>
Gybe Angles	<b>145.0°</b>	<b>149.0°</b>	<b>151.0°</b>	<b>158.0°</b>	<b>178.0°</b>	<b>180.0°</b>	<b>180.0°</b>