



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

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **063312**  
Issued On **31/08/2020**  
ORC Ref **03570000PDS**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 626kg  
Maximum **626kg**  
Minimum\* **470kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>675.7</b>	<b>0.8880</b>
Non Spin OSN	<b>655.1</b>	<b>0.9159</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes** **85.52**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

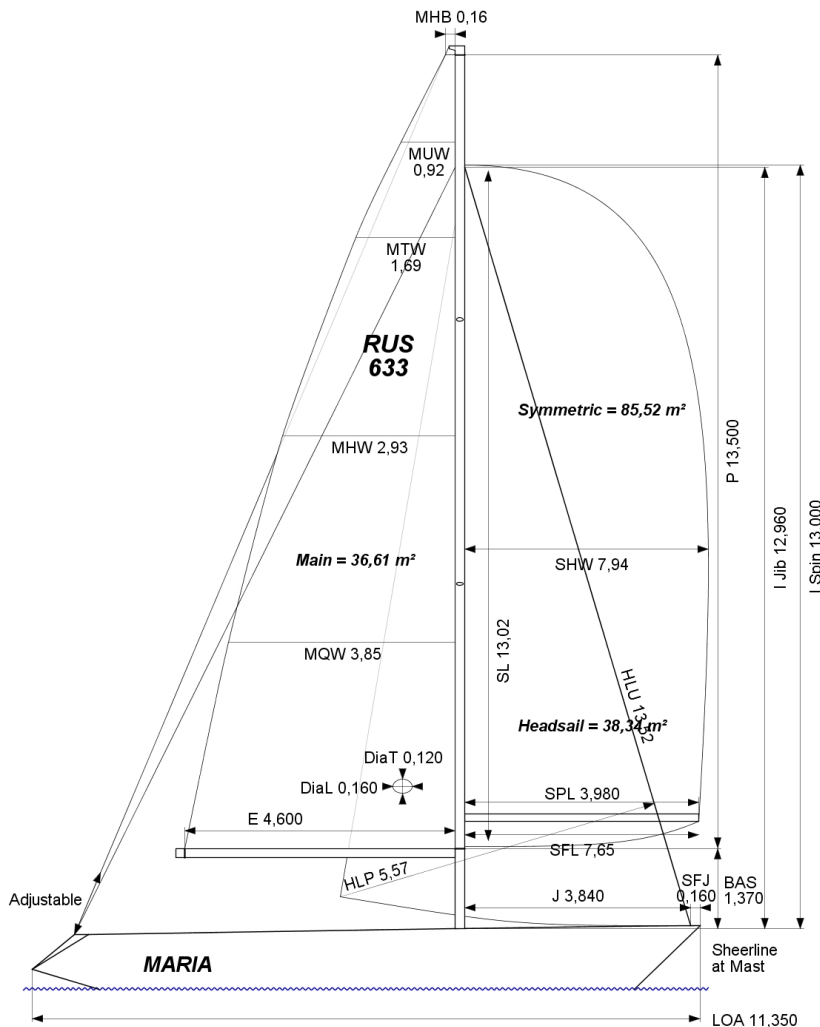
**Class Division Length**

**CDL = 8.765**

**Stability (Measured)**

Limit Positive Stab.: **111.1°**  
Stability Index: **113.3**

**Owner**



BOAT	GPH	HULL
Name <b>Maria</b> Sail Nr <b>RUS 633</b>	<b>649.3</b>	Data File <b>RU0633_Maria</b> LOA <b>11.350m</b> Offset File <b>LES-35.off</b> MB <b>3.608m</b> Displacement <b>6,415kg</b> Draft <b>2.112m</b>
<b>CLASS</b> Class <b>LES-35</b> Designer <b>V. Chaikin</b> Builder <b>Leningrad Exp.Yard</b> Series <b>12/1985</b> Age Date <b>01/1992</b> Age Allowance <b>0.487%</b>	IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.324%</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	IMS L <b>9.389m</b> VCGD <b>0.043m</b> Sink <b>18.58kg/mm</b> RL <b>8.145m</b> VCGM <b>0.064m</b> WS <b>26.92m²</b> LSM0 <b>9.354m</b> Displacement/Length ratio <b>7.8380</b>
<b>COMMENTS</b> Based on cert. RS RUS633.9 OFF file from IOR cert.	Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>	
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.460</b> Type <b>Folding 2 blades</b> PBW <b>117.000</b> PIPA <b>0.0041</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>630.6</b>	<b>701.4</b>
Time on Time	<b>0.9515</b>	<b>0.9623</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>747.8 574.1 512.1</b>	<b>966.8 706.6 608.4</b>
Time on Time	<b>0.9026 1.1758 1.3182</b>	<b>0.6982 0.9553 1.1094</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Maria</b>	Certificate Number <b>063312</b>
Sail Nr <b>RUS 633</b>	Issued On <b>31/08/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1070.5</b>	<b>894.8</b>	<b>791.5</b>	<b>739.9</b>	<b>718.7</b>	<b>708.2</b>	<b>704.2</b>
52°	<b>707.1</b>	<b>599.2</b>	<b>541.6</b>	<b>519.2</b>	<b>510.1</b>	<b>505.3</b>	<b>501.8</b>
60°	<b>671.1</b>	<b>571.5</b>	<b>526.4</b>	<b>507.2</b>	<b>497.1</b>	<b>491.9</b>	<b>487.6</b>
75°	<b>645.0</b>	<b>552.9</b>	<b>515.5</b>	<b>496.6</b>	<b>483.5</b>	<b>473.6</b>	<b>463.4</b>
90°	<b>653.8</b>	<b>554.9</b>	<b>511.8</b>	<b>490.6</b>	<b>478.2</b>	<b>464.3</b>	<b>443.0</b>
110°	<b>671.7</b>	<b>553.9</b>	<b>506.0</b>	<b>481.8</b>	<b>461.5</b>	<b>444.5</b>	<b>427.2</b>
120°	<b>693.0</b>	<b>569.2</b>	<b>512.5</b>	<b>486.1</b>	<b>464.2</b>	<b>443.4</b>	<b>412.4</b>
135°	<b>767.1</b>	<b>628.3</b>	<b>540.2</b>	<b>502.8</b>	<b>479.9</b>	<b>458.4</b>	<b>418.8</b>
150°	<b>919.3</b>	<b>727.2</b>	<b>611.7</b>	<b>537.3</b>	<b>503.4</b>	<b>481.8</b>	<b>442.0</b>
Run VMG	<b>1061.5</b>	<b>840.1</b>	<b>706.4</b>	<b>613.9</b>	<b>553.6</b>	<b>513.6</b>	<b>470.7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1066.0</b>	<b>867.4</b>	<b>748.9</b>	<b>676.9</b>	<b>636.1</b>	<b>610.9</b>	<b>587.4</b>
Circular Random	<b>896.0</b>	<b>722.8</b>	<b>629.7</b>	<b>575.7</b>	<b>542.9</b>	<b>521.9</b>	<b>497.1</b>
Coastal / Long Distance	<b>1065.6</b>	<b>815.1</b>	<b>674.7</b>	<b>592.7</b>	<b>552.4</b>	<b>522.0</b>	<b>475.3</b>
Non Spinnaker	<b>942.8</b>	<b>756.2</b>	<b>654.8</b>	<b>595.3</b>	<b>558.7</b>	<b>535.1</b>	<b>506.7</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>40.5°</b>	<b>40.5°</b>	<b>39.6°</b>	<b>38.6°</b>	<b>38.3°</b>	<b>38.3°</b>
Beat VMG	<b>3.36</b>	<b>4.02</b>	<b>4.55</b>	<b>4.87</b>	<b>5.01</b>	<b>5.08</b>	<b>5.11</b>
52°	<b>5.09</b>	<b>6.01</b>	<b>6.65</b>	<b>6.93</b>	<b>7.06</b>	<b>7.12</b>	<b>7.17</b>
60°	<b>5.36</b>	<b>6.30</b>	<b>6.84</b>	<b>7.10</b>	<b>7.24</b>	<b>7.32</b>	<b>7.38</b>
75°	<b>5.58</b>	<b>6.51</b>	<b>6.98</b>	<b>7.25</b>	<b>7.45</b>	<b>7.60</b>	<b>7.77</b>
90°	<b>5.51</b>	<b>6.49</b>	<b>7.03</b>	<b>7.34</b>	<b>7.53</b>	<b>7.75</b>	<b>8.13</b>
110°	<b>5.36</b>	<b>6.50</b>	<b>7.11</b>	<b>7.47</b>	<b>7.80</b>	<b>8.10</b>	<b>8.43</b>
120°	<b>5.19</b>	<b>6.32</b>	<b>7.02</b>	<b>7.41</b>	<b>7.76</b>	<b>8.12</b>	<b>8.73</b>
135°	<b>4.69</b>	<b>5.73</b>	<b>6.66</b>	<b>7.16</b>	<b>7.50</b>	<b>7.85</b>	<b>8.60</b>
150°	<b>3.92</b>	<b>4.95</b>	<b>5.88</b>	<b>6.70</b>	<b>7.15</b>	<b>7.47</b>	<b>8.14</b>
Run VMG	<b>3.39</b>	<b>4.29</b>	<b>5.10</b>	<b>5.86</b>	<b>6.50</b>	<b>7.01</b>	<b>7.65</b>
Gybe Angles	<b>146.0°</b>	<b>151.0°</b>	<b>150.0°</b>	<b>156.0°</b>	<b>174.0°</b>	<b>180.0°</b>	<b>180.0°</b>