



World Leader in Rating Technology

## 2016 ORC Club Certificate

### Rating Office

Hungarian Yachting  
Association  
Istvanmezei ut 1-3  
H-1146 Budapest  
HUNGARY



### Certificate

Number **004/16**  
Issued On **9.4.2016.**  
ORC Ref **HUN00062364**  
VPP Ver. **2016 1.01**  
Valid until **31.12.2016.**

### Crew Weight

Declared **400kg**  
Default\* **592kg**  
Non Manual Pwr **No**

### Special Scoring

ToD ToT  
Non Spin GPH **718.3 0.8353**  
Non Spin OSN **695.4 0.8628**  
N/S Perf. Line **6.0 0.540**

### Sails Limitations

Headsails **6** Spinnakers **3**

### Spinnaker configuration

Symmetric: **Yes 61.08**  
Asymmetric: **Yes 62.24**  
Flying H/S: **Yes 42.13**  
Spin. Pole: **Yes**

### Class Division Length

CDL = **7.892**

### Stability

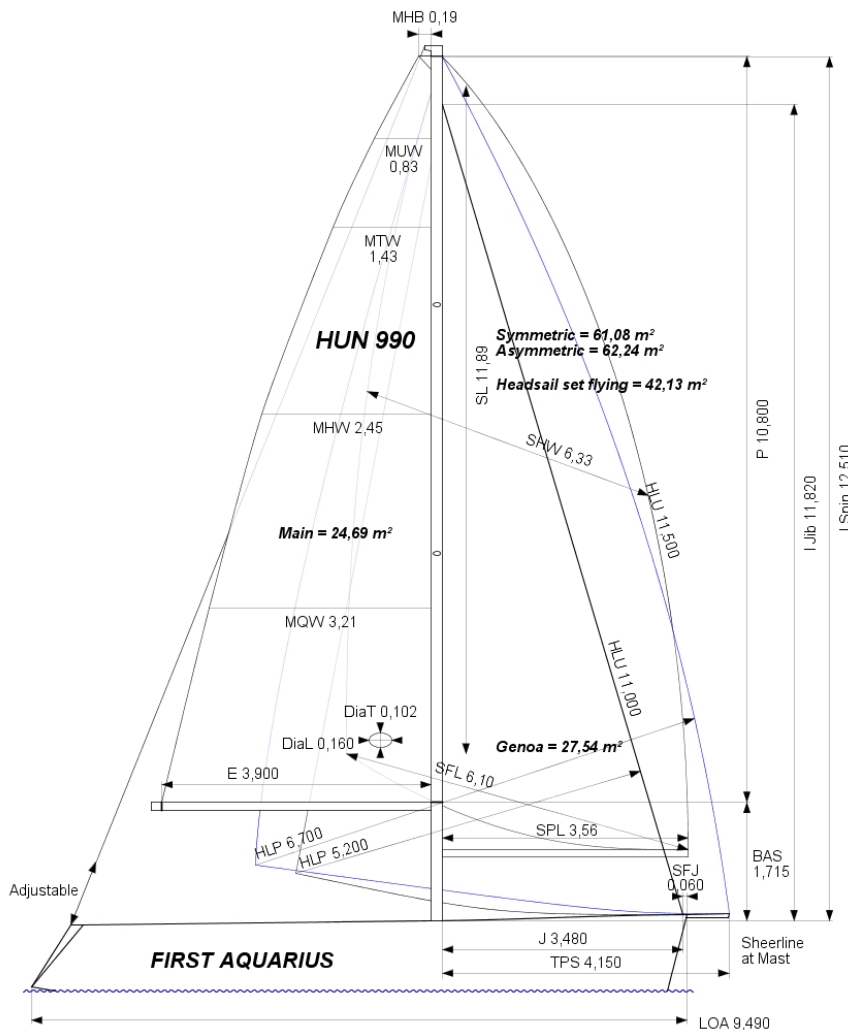
LPS (Estimated): **107.4°**  
Stability Index: **107.3**  
OSR Category: **N/A**

### Owner

Molnár Imre László  
Hegyalja u. 5  
2000 Szentendre  
HUNGARY

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT		GPH		HULL			
Name	<b>First Aquarius</b>			Data File	<b>HUN990.dxt</b>	LOA	<b>9.490m</b>
Sail Nr	<b>HUN 990</b>			Offset File	<b>HC55101.OFF</b>	MB	<b>3.216m</b>
			<b>680.6</b>	Displacement	<b>4,151kg</b>	Draft	<b>1.508m</b>
CLASS		CENTERBOARD					
Class	<b>First 31.7 SK</b>	Water Ballast <b>0</b> Trim Tab <b>No</b>					
Designer	<b>Finot</b>	IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.208%</b>					
Builder	<b>Benetau</b>	Fwd Accom. <b>Yes</b> Construction <b>Cored</b>					
Series	<b>09.1998, CIN FR-BEY88528F101</b>	Fiber Rigging <b>No</b> Aramid Core <b>No</b>					
Age Date	<b>01.2001</b>	Crew Arm Ex Carbon Rudder <b>No</b>					
Age Allowance	<b>0.487%</b>	Light Stanchions <b>No</b>					
COMMENTS		IMSL	<b>9.030m</b>	VCGD	<b>0.223m</b>	Sink	<b>16.16kg/mm</b>
		RL	<b>6.752m</b>	VCGM	<b>0.151m</b>	WS	<b>20.66m2</b>
		LSM0	<b>9.000m</b>		Displacement/Length ratio <b>5.6941</b>		
PROPELLER		SCORING OPTIONS					
Installation	<b>Strut</b>	PRD	<b>0.410</b>	OFFSHORE		INSHORE	
Type	<b>Folding 2 blades</b>	PBW	<b>0.110</b>	COASTAL / LONG DISTANCE		WINDWARD / LEEWARD	
		PIPA	<b>0.0032</b>				
Time On Distance				<b>664.8</b>		<b>747.2</b>	
Time On Time				<b>0.9025</b>		<b>0.9034</b>	
Performance Line		PLT	<b>0.600</b>	PLD	<b>29.3</b>	PLT	<b>0.738</b>
						PLD	<b>182.6</b>
Triple Number		Low	<b>0.8622</b>	Medium	<b>1.1200</b>	High	<b>1.2661</b>
		Low	<b>0.6544</b>	Medium	<b>0.8937</b>	High	<b>1.0477</b>



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# 2016

## ORC Club Certificate Appendix

### BOAT

Name **First Aquarius** Certificate Number **004/16**  
 Sail Nr **HUN 990** Issued On **9.4.2016.**

### TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1188.5</b>	<b>990.8</b>	<b>882.3</b>	<b>812.6</b>	<b>777.7</b>	<b>761.5</b>	<b>756.4</b>
52°	<b>749.6</b>	<b>629.8</b>	<b>566.7</b>	<b>542.2</b>	<b>530.1</b>	<b>523.9</b>	<b>520.4</b>
60°	<b>687.5</b>	<b>580.3</b>	<b>536.3</b>	<b>520.7</b>	<b>512.6</b>	<b>507.2</b>	<b>503.2</b>
75°	<b>630.9</b>	<b>545.9</b>	<b>515.9</b>	<b>499.9</b>	<b>490.3</b>	<b>484.0</b>	<b>473.7</b>
90°	<b>624.0</b>	<b>545.5</b>	<b>516.6</b>	<b>497.6</b>	<b>480.5</b>	<b>465.4</b>	<b>449.4</b>
110°	<b>695.1</b>	<b>576.1</b>	<b>525.5</b>	<b>499.8</b>	<b>476.1</b>	<b>454.7</b>	<b>425.3</b>
120°	<b>721.8</b>	<b>594.2</b>	<b>533.3</b>	<b>505.4</b>	<b>482.4</b>	<b>457.8</b>	<b>414.4</b>
135°	<b>800.9</b>	<b>651.8</b>	<b>563.8</b>	<b>523.2</b>	<b>499.2</b>	<b>476.4</b>	<b>430.2</b>
150°	<b>942.9</b>	<b>743.3</b>	<b>630.6</b>	<b>558.3</b>	<b>522.6</b>	<b>500.1</b>	<b>456.5</b>
Run VMG	<b>1088.8</b>	<b>858.0</b>	<b>726.1</b>	<b>636.5</b>	<b>572.0</b>	<b>531.5</b>	<b>486.8</b>

### Selected Courses

Windward / Leeward	<b>1138.7</b>	<b>924.4</b>	<b>804.2</b>	<b>724.5</b>	<b>674.8</b>	<b>646.5</b>	<b>621.6</b>
Circular Random	<b>939.6</b>	<b>758.3</b>	<b>660.4</b>	<b>603.0</b>	<b>567.4</b>	<b>544.2</b>	<b>516.1</b>
Ocean for PCS	<b>1167.5</b>	<b>898.9</b>	<b>746.6</b>	<b>652.8</b>	<b>591.6</b>	<b>548.8</b>	<b>490.0</b>
Non Spinnaker	<b>1012.2</b>	<b>807.7</b>	<b>695.5</b>	<b>629.0</b>	<b>587.7</b>	<b>561.0</b>	<b>529.4</b>

### Velocity Prediction in Knots for True Wind Speeds

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>46.7°</b>	<b>45.6°</b>	<b>45.4°</b>	<b>42.8°</b>	<b>41.4°</b>	<b>40.9°</b>	<b>40.7°</b>
Beat VMG	<b>3.03</b>	<b>3.63</b>	<b>4.08</b>	<b>4.43</b>	<b>4.63</b>	<b>4.73</b>	<b>4.76</b>
52°	<b>4.80</b>	<b>5.72</b>	<b>6.35</b>	<b>6.64</b>	<b>6.79</b>	<b>6.87</b>	<b>6.92</b>
60°	<b>5.24</b>	<b>6.20</b>	<b>6.71</b>	<b>6.91</b>	<b>7.02</b>	<b>7.10</b>	<b>7.15</b>
75°	<b>5.71</b>	<b>6.59</b>	<b>6.98</b>	<b>7.20</b>	<b>7.34</b>	<b>7.44</b>	<b>7.60</b>
90°	<b>5.77</b>	<b>6.60</b>	<b>6.97</b>	<b>7.23</b>	<b>7.49</b>	<b>7.74</b>	<b>8.01</b>
110°	<b>5.18</b>	<b>6.25</b>	<b>6.85</b>	<b>7.20</b>	<b>7.56</b>	<b>7.92</b>	<b>8.47</b>
120°	<b>4.99</b>	<b>6.06</b>	<b>6.75</b>	<b>7.12</b>	<b>7.46</b>	<b>7.86</b>	<b>8.69</b>
135°	<b>4.49</b>	<b>5.52</b>	<b>6.39</b>	<b>6.88</b>	<b>7.21</b>	<b>7.56</b>	<b>8.37</b>
150°	<b>3.82</b>	<b>4.84</b>	<b>5.71</b>	<b>6.45</b>	<b>6.89</b>	<b>7.20</b>	<b>7.89</b>
Run VMG	<b>3.31</b>	<b>4.20</b>	<b>4.96</b>	<b>5.66</b>	<b>6.29</b>	<b>6.77</b>	<b>7.39</b>
Gybe Angles	<b>146.1°</b>	<b>150.9°</b>	<b>153.2°</b>	<b>157.4°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>