



World Leader in Rating Technology

## 2016 ORC Club Certificate

### Rating Office

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



### Certificate

Number **005/16**  
Issued On **11.4.2016.**  
ORC Ref **HUN00062388**  
VPP Ver. **2016 1.01**  
Valid until **31.12.2016.**

### Crew Weight

Declared **817kg**  
Default\* **817kg**  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Non Spin GPH	<b>617.3</b>	<b>0.9720</b>
Non Spin OSN	<b>603.5</b>	<b>0.9942</b>
N/S Perf. Line	<b>12.0</b>	<b>0.633</b>

### Sails Limitations

Headsails **1** Spinnakers **4**

### Spinnaker configuration

Symmetric: **No**  
Asymmetric: **Yes 156.17**  
Flying H/S: **Yes 60.71**  
Spin. Pole: **No**

### Class Division Length

CDL = **10.271**

### Stability

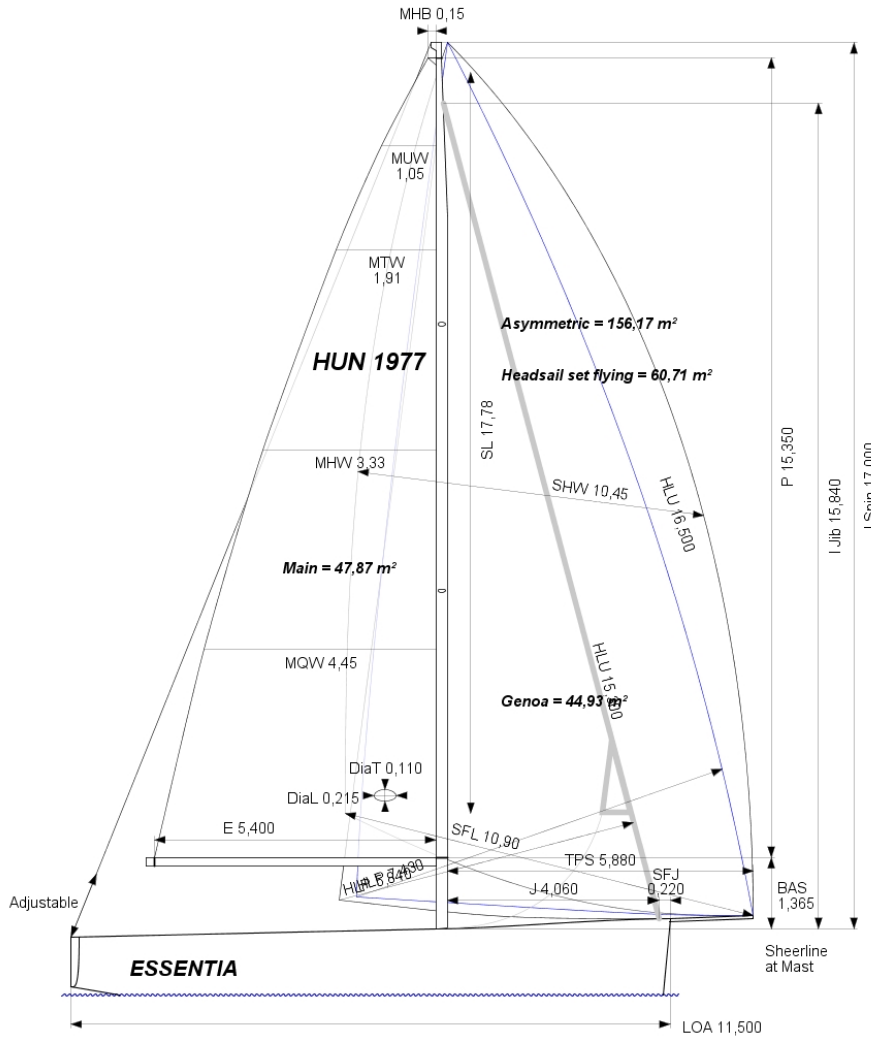
LPS (Estimated): **126.4°**  
Stability Index: **131.8**  
OSR Category: **N/A**

### Owner

Dr. Révész Mária  
Böszörmény út 19/A. 4. em. 32  
1126 Budapest  
HUNGARY

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

Signature



BOAT		GPH		HULL			
Name	<b>Essentia</b>		<b>580.8</b>	Data File	<b>HUN1977.dxt</b>	LOA	<b>11.500m</b>
Sail Nr	<b>HUN 1977</b>			Offset File	<b>D38_DV.off</b>	MB	<b>3.456m</b>
				Displacement	<b>6,870kg</b>	Draft	<b>1.894m</b>
CLASS				IMS Division	<b>Cruiser/Racer</b>	Dynamic All.	<b>0.062%</b>
Class	<b>Dolphin 38 Racing</b>			Fwd Accom.	<b>Yes</b>	Construction	<b>Cored</b>
Designer	<b>Gyöző Simongáti</b>			Fiber Rigging	<b>No</b>	Aramid Core	<b>No</b>
Builder	<b>Schafer Yacht</b>			Crew Arm Ex		Carbon Rudder	<b>No</b>
Series	<b>01.2014</b>					Light Stanchions	<b>No</b>
Age Date	<b>05.2015</b>			IMSL	<b>11.247m</b>	VCGD	<b>0.047m</b>
Age Allowance	<b>0.065%</b>			RL	<b>9.292m</b>	VCGM	<b>-0.047m</b>
				WS	<b>29.76m2</b>		
				LSM0	<b>11.274m</b>	Displacement/Length ratio	<b>4.7943</b>
COMMENTS				Water Ballast	<b>0</b>	Trim Tab	<b>No</b>
PROPELLER				CENTERBOARD			
Installation	<b>Strut</b>	PRD	<b>0.400</b>	<b>N/A</b>			
Type	<b>Folding 2 blades</b>	PBW	<b>0.100</b>				
		PIPA	<b>0.0006</b>				
SCORING OPTIONS							
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD			
Time On Distance	<b>569.0</b>			<b>642.3</b>			
Time On Time	<b>1.0545</b>			<b>1.0510</b>			
Performance Line	PLT	PLD		PLT	PLD		
	<b>0.740</b>	<b>52.7</b>		<b>0.990</b>	<b>270.2</b>		
Triple Number	Low	Medium	High	Low	Medium	High	
	<b>1.0263</b>	<b>1.3059</b>	<b>1.4548</b>	<b>0.7801</b>	<b>1.0465</b>	<b>1.1905</b>	



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## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Essentia</b>	Certificate Number <b>005/16</b>
Sail Nr <b>HUN 1977</b>	Issued On <b>11.4.2016.</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1000.3</b>	<b>831.9</b>	<b>738.2</b>	<b>692.7</b>	<b>670.0</b>	<b>656.9</b>	<b>647.3</b>
52°	<b>638.7</b>	<b>537.3</b>	<b>491.2</b>	<b>473.9</b>	<b>466.0</b>	<b>461.7</b>	<b>457.1</b>
60°	<b>588.8</b>	<b>501.2</b>	<b>472.3</b>	<b>458.9</b>	<b>451.8</b>	<b>447.6</b>	<b>444.0</b>
75°	<b>540.0</b>	<b>475.9</b>	<b>453.1</b>	<b>441.2</b>	<b>431.3</b>	<b>423.8</b>	<b>416.3</b>
90°	<b>530.2</b>	<b>473.7</b>	<b>451.4</b>	<b>434.0</b>	<b>417.9</b>	<b>406.2</b>	<b>388.1</b>
110°	<b>572.4</b>	<b>481.3</b>	<b>449.1</b>	<b>433.2</b>	<b>418.0</b>	<b>396.1</b>	<b>370.5</b>
120°	<b>585.8</b>	<b>488.3</b>	<b>453.0</b>	<b>427.1</b>	<b>406.0</b>	<b>391.6</b>	<b>358.5</b>
135°	<b>662.2</b>	<b>529.2</b>	<b>470.9</b>	<b>444.7</b>	<b>419.4</b>	<b>392.1</b>	<b>337.1</b>
150°	<b>783.9</b>	<b>626.9</b>	<b>526.9</b>	<b>475.0</b>	<b>455.5</b>	<b>436.6</b>	<b>390.1</b>
Run VMG	<b>905.2</b>	<b>723.9</b>	<b>608.4</b>	<b>547.7</b>	<b>522.0</b>	<b>484.2</b>	<b>440.9</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>952.7</b>	<b>777.9</b>	<b>673.3</b>	<b>620.2</b>	<b>596.0</b>	<b>570.6</b>	<b>544.1</b>
Circular Random	<b>791.9</b>	<b>642.8</b>	<b>563.9</b>	<b>518.8</b>	<b>491.0</b>	<b>472.1</b>	<b>446.2</b>
Ocean for PCS	<b>981.8</b>	<b>760.4</b>	<b>636.2</b>	<b>560.7</b>	<b>511.5</b>	<b>476.7</b>	<b>426.4</b>
Non Spinnaker	<b>859.4</b>	<b>690.3</b>	<b>598.5</b>	<b>544.3</b>	<b>510.4</b>	<b>488.0</b>	<b>459.9</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>44.4°</b>	<b>43.1°</b>	<b>42.8°</b>	<b>41.1°</b>	<b>39.9°</b>	<b>39.2°</b>	<b>39.0°</b>
Beat VMG	<b>3.60</b>	<b>4.33</b>	<b>4.88</b>	<b>5.20</b>	<b>5.37</b>	<b>5.48</b>	<b>5.56</b>
52°	<b>5.64</b>	<b>6.70</b>	<b>7.33</b>	<b>7.60</b>	<b>7.73</b>	<b>7.80</b>	<b>7.88</b>
60°	<b>6.11</b>	<b>7.18</b>	<b>7.62</b>	<b>7.84</b>	<b>7.97</b>	<b>8.04</b>	<b>8.11</b>
75°	<b>6.67</b>	<b>7.57</b>	<b>7.94</b>	<b>8.16</b>	<b>8.35</b>	<b>8.49</b>	<b>8.65</b>
90°	<b>6.79</b>	<b>7.60</b>	<b>7.97</b>	<b>8.29</b>	<b>8.61</b>	<b>8.86</b>	<b>9.28</b>
110°	<b>6.29</b>	<b>7.48</b>	<b>8.02</b>	<b>8.31</b>	<b>8.61</b>	<b>9.09</b>	<b>9.72</b>
120°	<b>6.15</b>	<b>7.37</b>	<b>7.95</b>	<b>8.43</b>	<b>8.87</b>	<b>9.19</b>	<b>10.04</b>
135°	<b>5.44</b>	<b>6.80</b>	<b>7.64</b>	<b>8.10</b>	<b>8.58</b>	<b>9.18</b>	<b>10.68</b>
150°	<b>4.59</b>	<b>5.74</b>	<b>6.83</b>	<b>7.58</b>	<b>7.90</b>	<b>8.24</b>	<b>9.23</b>
Run VMG	<b>3.98</b>	<b>4.97</b>	<b>5.92</b>	<b>6.57</b>	<b>6.90</b>	<b>7.43</b>	<b>8.17</b>
Gybe Angles	<b>143.6°</b>	<b>147.7°</b>	<b>147.5°</b>	<b>151.0°</b>	<b>153.1°</b>	<b>176.1°</b>	<b>177.5°</b>