



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2019  
ORC Club  
Certificate**

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



**Certificate**

Number **004/19**  
Issued On **09/05/2019**  
ORC Ref **HUN10025118**  
VPP Ver. **2019 1.01**  
Valid until **31/12/2019**

**Crew Weight**

Default 690kg  
Maximum **690kg**  
Minimum\* **518kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>629.6</b>	<b>0.9529</b>
Double H.OSN	<b>615.0</b>	<b>0.9756</b>
Non Spin GPH	<b>657.1</b>	<b>0.9131</b>
Non Spin OSN	<b>638.0</b>	<b>0.9405</b>

**Sails Limitations**

Headsails **5** Spinnakers **3**

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 108.60**  
Flying H/S: **No**  
Spin. Pole: **No**

**Class Division Length**

**CDL = 9.250**

**Stability (Estimated)**

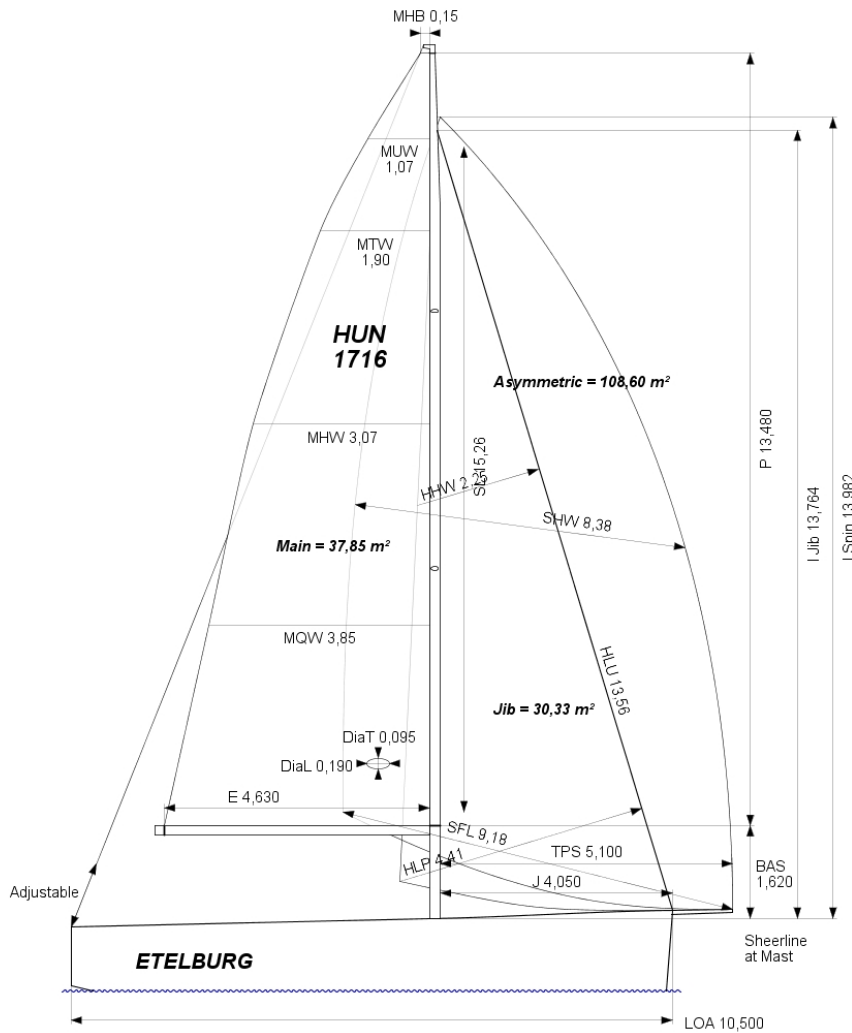
Limit Positive Stab.: **119.2°**  
Stability Index: **119.4**

**Owner**

Compass Holding Kft.  
1117 Budapest

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

Signature



BOAT		GPH	HULL			
Name <b>ETELBURG</b>		<b>618.6</b>	Data File <b>HUN1716</b>	LOA <b>10.500m</b>		
Sail Nr <b>HUN-1716</b>			Offset File <b>ElanE4SD.off</b>	MB <b>3.540m</b>		
			Displacement <b>5 349kg</b>	Draft <b>1.686m</b>		
<b>CLASS</b>			IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.212%</b>		
Class <b>ELAN E4</b>			Fwd Accom. <b>No</b>	Construction <b>Solid</b>		
Designer <b>HUMPHREYS</b>			Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
Builder <b>ELAN</b>			Crew Arm Ex	Carbon Rudder <b>No</b>		
Series <b>07/2014</b>				Light Stanchions <b>No</b>		
Age Date <b>01/2018</b>			IMSL <b>10.210m</b>	VCGD <b>-0.031m</b>		
Age Allowance <b>0.163%</b>			RL <b>8.287m</b>	VCGM <b>0.074m</b>		
			WS <b>24.90m²</b>			
			LSM0 <b>10.015m</b>	Displacement/Length ratio <b>5.3250</b>		
<b>COMMENTS</b>			Water Ballast <b>0</b>	Trim Tab <b>No</b>		
			BLR Index <b>0.0000</b>			
<b>PROPELLER</b>			<b>CENTERBOARD</b>			
Installation <b>Strut</b>	PRD <b>0.420</b>		<b>N/A</b>			
Type <b>Folding 2 blades</b>	PIPA <b>0.0007</b>					
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>602.7</b>			<b>680.9</b>		
Time on Time	<b>0.9956</b>			<b>0.9913</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>707.2</b>	<b>548.0</b>	<b>492.3</b>	<b>921.5</b>	<b>683.3</b>	<b>603.1</b>
Time on Time	<b>0.9545</b>	<b>1.2317</b>	<b>1.3711</b>	<b>0.7325</b>	<b>0.9879</b>	<b>1.1192</b>

# 2019

## ORC Club Certificate Appendix

BOAT	
Name	<b>ETELBURG</b>
Certificate Number	<b>004/19</b>
Sail Nr	<b>HUN-1716</b>
Issued On	<b>09/05/2019</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1091.4</b>	<b>899.5</b>	<b>789.9</b>	<b>733.5</b>	<b>714.3</b>	<b>708.1</b>	<b>704.1</b>
52°	<b>697.8</b>	<b>586.3</b>	<b>526.3</b>	<b>501.0</b>	<b>491.7</b>	<b>488.0</b>	<b>485.8</b>
60°	<b>648.8</b>	<b>552.9</b>	<b>507.5</b>	<b>486.9</b>	<b>476.6</b>	<b>472.4</b>	<b>470.9</b>
75°	<b>615.1</b>	<b>529.3</b>	<b>494.0</b>	<b>474.9</b>	<b>460.7</b>	<b>449.9</b>	<b>441.9</b>
90°	<b>615.3</b>	<b>517.1</b>	<b>480.7</b>	<b>466.8</b>	<b>454.4</b>	<b>437.9</b>	<b>411.7</b>
110°	<b>601.8</b>	<b>506.4</b>	<b>470.8</b>	<b>445.9</b>	<b>424.1</b>	<b>410.7</b>	<b>390.3</b>
120°	<b>617.5</b>	<b>514.3</b>	<b>475.3</b>	<b>448.8</b>	<b>421.6</b>	<b>396.2</b>	<b>365.0</b>
135°	<b>690.0</b>	<b>558.4</b>	<b>495.0</b>	<b>466.3</b>	<b>440.7</b>	<b>414.1</b>	<b>360.1</b>
150°	<b>815.8</b>	<b>652.3</b>	<b>553.0</b>	<b>500.4</b>	<b>478.8</b>	<b>458.3</b>	<b>414.3</b>
Run VMG	<b>942.1</b>	<b>753.2</b>	<b>638.6</b>	<b>577.5</b>	<b>548.1</b>	<b>504.1</b>	<b>458.6</b>

Selected Courses							
Windward / Leeward	<b>1016.7</b>	<b>826.4</b>	<b>714.3</b>	<b>655.5</b>	<b>631.2</b>	<b>606.1</b>	<b>581.4</b>
Circular Random	<b>849.7</b>	<b>686.7</b>	<b>600.1</b>	<b>550.6</b>	<b>520.6</b>	<b>501.0</b>	<b>475.7</b>
Coastal / Long Distance	<b>1009.3</b>	<b>772.9</b>	<b>641.7</b>	<b>568.8</b>	<b>532.9</b>	<b>500.2</b>	<b>449.0</b>
Non Spinnaker	<b>921.8</b>	<b>737.0</b>	<b>636.3</b>	<b>577.2</b>	<b>540.9</b>	<b>517.6</b>	<b>489.3</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>44.6°</b>	<b>43.0°</b>	<b>42.5°</b>	<b>41.5°</b>	<b>40.8°</b>	<b>40.8°</b>	<b>40.8°</b>
Beat VMG	<b>3.30</b>	<b>4.00</b>	<b>4.56</b>	<b>4.91</b>	<b>5.04</b>	<b>5.08</b>	<b>5.11</b>
52°	<b>5.16</b>	<b>6.14</b>	<b>6.84</b>	<b>7.19</b>	<b>7.32</b>	<b>7.38</b>	<b>7.41</b>
60°	<b>5.55</b>	<b>6.51</b>	<b>7.09</b>	<b>7.39</b>	<b>7.55</b>	<b>7.62</b>	<b>7.64</b>
75°	<b>5.85</b>	<b>6.80</b>	<b>7.29</b>	<b>7.58</b>	<b>7.81</b>	<b>8.00</b>	<b>8.15</b>
90°	<b>5.85</b>	<b>6.96</b>	<b>7.49</b>	<b>7.71</b>	<b>7.92</b>	<b>8.22</b>	<b>8.74</b>
110°	<b>5.98</b>	<b>7.11</b>	<b>7.65</b>	<b>8.07</b>	<b>8.49</b>	<b>8.77</b>	<b>9.22</b>
120°	<b>5.83</b>	<b>7.00</b>	<b>7.57</b>	<b>8.02</b>	<b>8.54</b>	<b>9.09</b>	<b>9.86</b>
135°	<b>5.22</b>	<b>6.45</b>	<b>7.27</b>	<b>7.72</b>	<b>8.17</b>	<b>8.69</b>	<b>10.00</b>
150°	<b>4.41</b>	<b>5.52</b>	<b>6.51</b>	<b>7.19</b>	<b>7.52</b>	<b>7.86</b>	<b>8.69</b>
Run VMG	<b>3.82</b>	<b>4.78</b>	<b>5.64</b>	<b>6.23</b>	<b>6.57</b>	<b>7.14</b>	<b>7.85</b>
Gybe Angles	<b>144.1°</b>	<b>147.8°</b>	<b>148.1°</b>	<b>150.3°</b>	<b>153.3°</b>	<b>176.6°</b>	<b>177.8°</b>