



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

**2020**  
**ORC Club**  
**Certificate**

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



**Certificate**

Number **027/20**  
Issued On **27/07/2020**  
ORC Ref **03880000N6R**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 426kg  
Maximum **426kg**  
Minimum\* **320kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr

**Special Scoring**

ToD ToT  
Non Spin GPH **670.2 0.8953**  
Non Spin OSN **652.1 0.9202**

**Sails Limitations**

Headsails **5** Spinnakers **4**  
**Woven Polyester**

**Spinnaker configuration**

Symmetric: **Yes 65.22**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

**Class Division Length**

**CDL = 7.892**

**Stability (Estimated)**

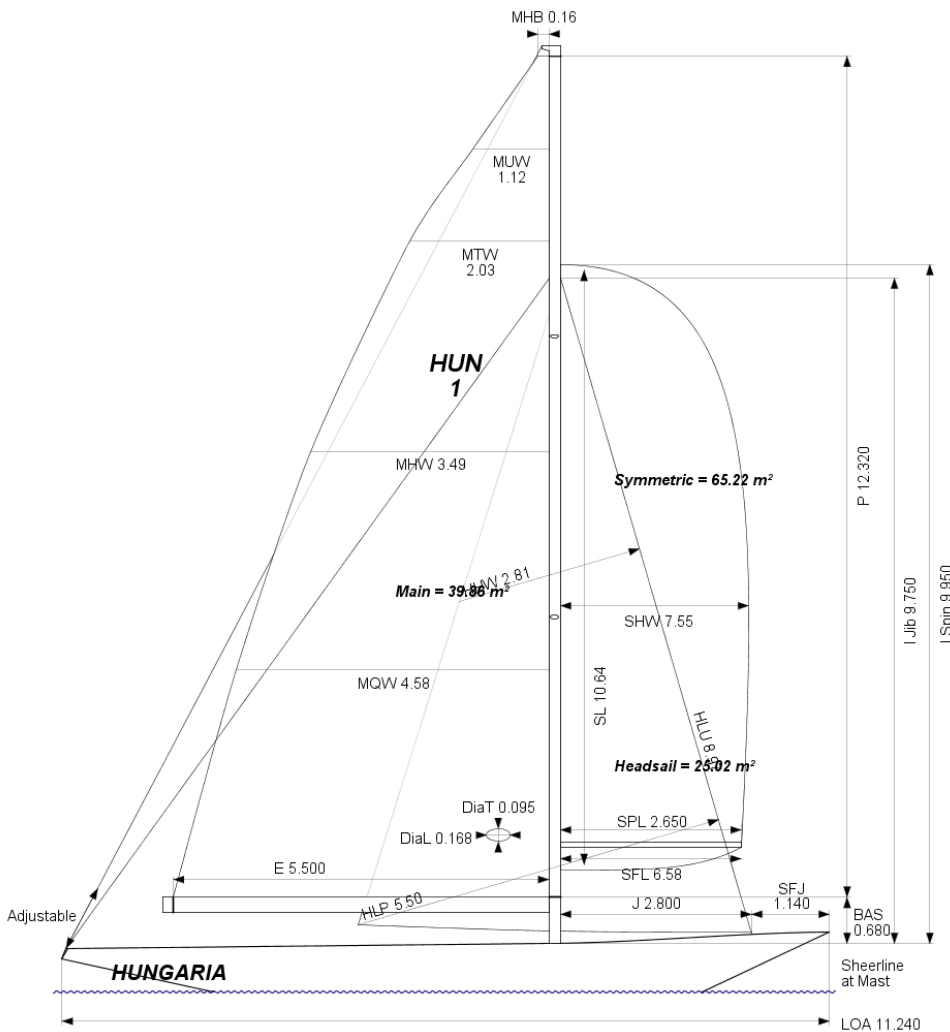
Limit Positive Stab.: **180.0°**  
Stability Index: **184.5**

**Owner**

TUX Marine Hungary Kft.  
Belgrad rakpart 12, l.h. 5/1  
1056 Budapest

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

Signature



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>		
Name <b>Hungaria</b> Sail Nr <b>HUN-1</b>		<b>648.3</b>		Data File <b>HUN-1</b>	LOA <b>11.240m</b>	
				Offset File <b>6mRHUN-1.off</b>	MB <b>1.966m</b>	
				Displacement <b>4,052kg</b>	Draft <b>1.680m</b>	
<b>CLASS</b>		IMS Division <b>Performance</b> Dynamic All. <b>0.088%</b>				
Class <b>6mR</b>		Plan Review Construction <b>Solid</b>				
Designer <b>Gustaf Estlander</b>		Fiber Rigging <b>No</b> Aramid Core <b>No</b>				
Builder <b>Abrahamson &amp; Börje</b>		Crew Arm Ex Carbon Rudder <b>No</b>				
Series <b>01/1928</b>		Light Stanchions <b>No</b>				
Age Date <b>01/1928</b>		IMSL <b>7.895m</b> VCGD <b>-0.855m</b> Sink <b>10.11kg/mm</b>				
Age Allowance <b>0.487%</b>		RL <b>7.894m</b> VCGM <b>-0.814m</b> WS <b>19.12m²</b>				
		LSM0 <b>7.148m</b> Displacement/Length ratio <b>11.0947</b>				
<b>COMMENTS</b>		Water Ballast Trim Tab <b>No</b>				
		BLR Index <b>0.0000</b>				
<b>PROPELLER</b>		<b>CENTERBOARD</b>				
Type <b>No Propeller</b>		<b>N/A</b>				
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>631.7</b>			<b>700.5</b>		
Time on Time	<b>0.9499</b>			<b>0.9636</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>733.4</b>	<b>577.1</b>	<b>517.9</b>	<b>946.7</b>	<b>703.9</b>	<b>612.9</b>
Time on Time	<b>0.9204</b>	<b>1.1696</b>	<b>1.3033</b>	<b>0.7130</b>	<b>0.9590</b>	<b>1.1013</b>

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## ORC Club Certificate Appendix

**BOAT**

Name	<b>Hungaria</b>	Certificate Number	<b>027/20</b>
Sail Nr	<b>HUN-1</b>	Issued On	<b>27/07/2020</b>

**TIME ALLOWANCES**

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1053.4</b>	<b>877.0</b>	<b>790.2</b>	<b>751.6</b>	<b>730.8</b>	<b>717.1</b>	<b>705.3</b>
52°	<b>698.0</b>	<b>587.6</b>	<b>548.1</b>	<b>530.3</b>	<b>521.3</b>	<b>515.7</b>	<b>509.5</b>
60°	<b>659.5</b>	<b>567.7</b>	<b>535.5</b>	<b>517.5</b>	<b>507.4</b>	<b>501.0</b>	<b>493.9</b>
75°	<b>629.1</b>	<b>554.9</b>	<b>526.5</b>	<b>506.7</b>	<b>490.8</b>	<b>479.8</b>	<b>468.6</b>
90°	<b>633.1</b>	<b>553.8</b>	<b>520.6</b>	<b>503.6</b>	<b>485.1</b>	<b>467.8</b>	<b>444.9</b>
110°	<b>648.1</b>	<b>549.4</b>	<b>514.1</b>	<b>488.3</b>	<b>470.4</b>	<b>459.5</b>	<b>440.6</b>
120°	<b>674.3</b>	<b>559.0</b>	<b>519.7</b>	<b>493.1</b>	<b>468.4</b>	<b>446.7</b>	<b>425.0</b>
135°	<b>760.6</b>	<b>608.5</b>	<b>540.1</b>	<b>510.5</b>	<b>485.3</b>	<b>461.6</b>	<b>418.2</b>
150°	<b>893.0</b>	<b>714.6</b>	<b>597.6</b>	<b>538.4</b>	<b>510.7</b>	<b>486.9</b>	<b>443.5</b>
Run VMG	<b>1031.2</b>	<b>825.1</b>	<b>689.9</b>	<b>605.3</b>	<b>550.2</b>	<b>519.3</b>	<b>473.2</b>

**Selected Courses**

Windward / Leeward	<b>1042.3</b>	<b>851.1</b>	<b>740.0</b>	<b>678.5</b>	<b>640.5</b>	<b>618.2</b>	<b>589.3</b>
Circular Random	<b>884.0</b>	<b>717.7</b>	<b>629.6</b>	<b>579.0</b>	<b>547.9</b>	<b>527.4</b>	<b>500.6</b>
Coastal / Long Distance	<b>1041.2</b>	<b>800.6</b>	<b>670.6</b>	<b>599.0</b>	<b>559.5</b>	<b>528.1</b>	<b>480.9</b>
Non Spinnaker	<b>922.3</b>	<b>745.2</b>	<b>650.4</b>	<b>595.3</b>	<b>561.1</b>	<b>538.4</b>	<b>509.5</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>41.8°</b>	<b>42.0°</b>	<b>40.5°</b>	<b>39.0°</b>	<b>38.3°</b>	<b>37.5°</b>	<b>36.8°</b>
Beat VMG	<b>3.42</b>	<b>4.10</b>	<b>4.56</b>	<b>4.79</b>	<b>4.93</b>	<b>5.02</b>	<b>5.10</b>
52°	<b>5.16</b>	<b>6.13</b>	<b>6.57</b>	<b>6.79</b>	<b>6.91</b>	<b>6.98</b>	<b>7.07</b>
60°	<b>5.46</b>	<b>6.34</b>	<b>6.72</b>	<b>6.96</b>	<b>7.10</b>	<b>7.19</b>	<b>7.29</b>
75°	<b>5.72</b>	<b>6.49</b>	<b>6.84</b>	<b>7.11</b>	<b>7.34</b>	<b>7.50</b>	<b>7.68</b>
90°	<b>5.69</b>	<b>6.50</b>	<b>6.92</b>	<b>7.15</b>	<b>7.42</b>	<b>7.70</b>	<b>8.09</b>
110°	<b>5.55</b>	<b>6.55</b>	<b>7.00</b>	<b>7.37</b>	<b>7.65</b>	<b>7.84</b>	<b>8.17</b>
120°	<b>5.34</b>	<b>6.44</b>	<b>6.93</b>	<b>7.30</b>	<b>7.69</b>	<b>8.06</b>	<b>8.47</b>
135°	<b>4.73</b>	<b>5.92</b>	<b>6.67</b>	<b>7.05</b>	<b>7.42</b>	<b>7.80</b>	<b>8.61</b>
150°	<b>4.03</b>	<b>5.04</b>	<b>6.02</b>	<b>6.69</b>	<b>7.05</b>	<b>7.39</b>	<b>8.12</b>
Run VMG	<b>3.49</b>	<b>4.36</b>	<b>5.22</b>	<b>5.95</b>	<b>6.54</b>	<b>6.93</b>	<b>7.61</b>
Gybe Angles	<b>146.0°</b>	<b>150.0°</b>	<b>150.3°</b>	<b>160.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>