



World Leader in Rating Technology

## 2018 ORC Club Certificate

### Rating Office

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



### Certificate

Number **027/18**  
Issued On **22/07/2018**  
ORC Ref **HUN10015085**  
VPP Ver. **2018 1.00**  
Valid until **31/12/2018**

### Crew Weight

Default 648kg  
Maximum **648kg**  
Minimum\* **486kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr

### Special Scoring

	ToD	ToT
Non Spin GPH	<b>668.7</b>	<b>0.8973</b>
Non Spin OSN	<b>647.8</b>	<b>0.9262</b>

### Sails Limitations

Headsails 1 Spinnakers 3

**Spinnaker configuration**  
Symmetric: **Yes 73.16**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

**CDL = 9.066**

### Stability (Measured)

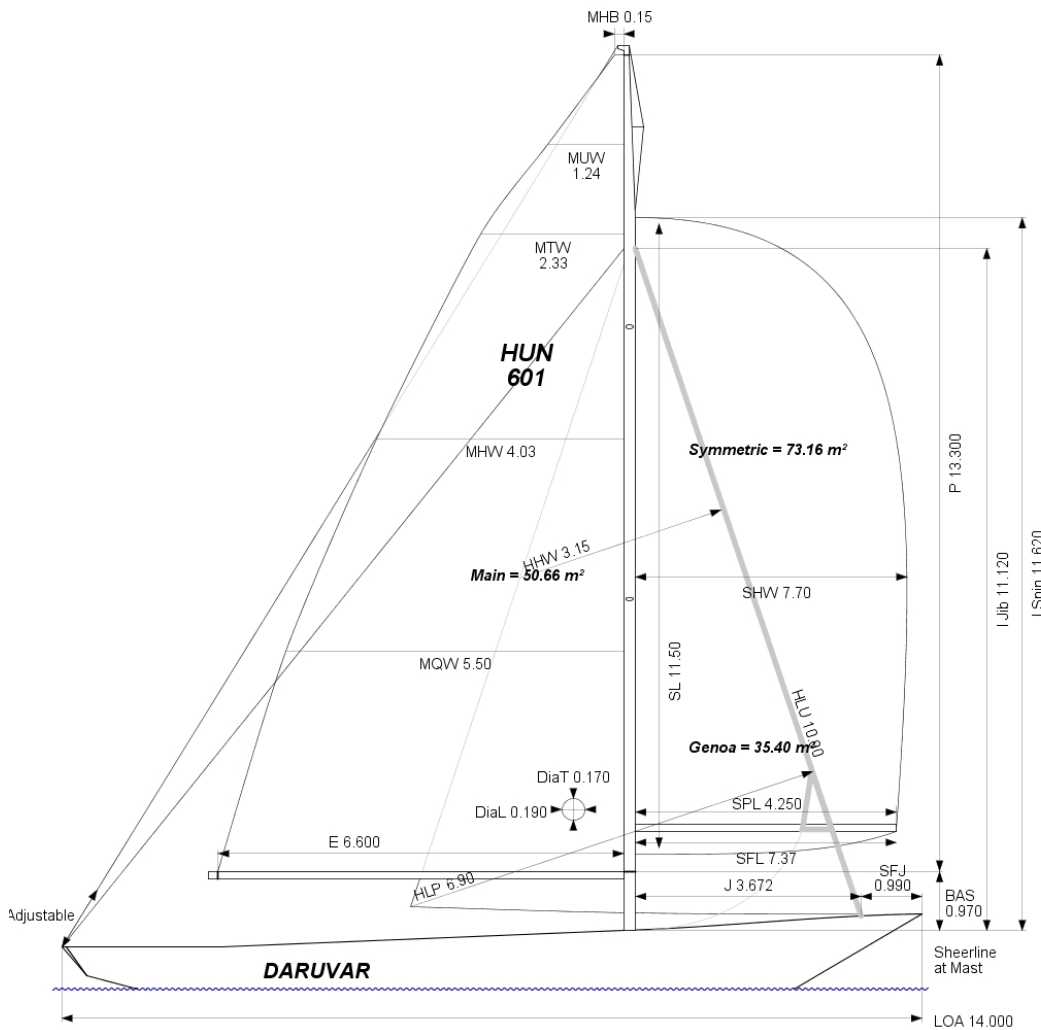
Limit Positive Stab.: **137.1°**  
Stability Index: **144.5**

### Owner

Rudolf Barinkay  
Budenz út 3/  
1021 Budapest  
HUNGARY

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

Signature



BOAT		GPH	HULL				
Name	<b>Daruvar</b>	<b>648.9</b>	Data File	<b>HUN 60-1</b>	LOA	<b>14.000m</b>	
Sail Nr	<b>HUN 60-1</b>		Offset File	<b>DARUVAR.OFF</b>	MB	<b>3.008m</b>	
			Displacement	<b>8,592kg</b>	Draft	<b>1.817m</b>	
			IMS Division	<b>Cruiser/Racer</b>	Dynamic All.	<b>0.421%</b>	
			Fwd Accom.	<b>Yes</b>	Construction	<b>Solid</b>	
			Fiber Rigging	<b>No</b>	Aramid Core	<b>No</b>	
			Crew Arm Ex		Carbon Rudder	<b>No</b>	
					Light Stanchions	<b>No</b>	
			IMSL	<b>10.371m</b>	VCGD	<b>-0.507m</b>	
			RL	<b>7.760m</b>	VCGM	<b>-0.350m</b>	
			WS	<b>30.54m²</b>			
			LSM0	<b>9.590m</b>	Displacement/Length ratio	<b>9.7418</b>	
			Water Ballast	<b>0</b>	Trim Tab	<b>No</b>	
			BLR Index	<b>0.0000</b>			
CLASS			CENTERBOARD				
Class	<b>60-er Seefahrtkreuz</b>		<b>N/A</b>				
Designer	<b>Jenő Benacsek</b>						
Builder	<b>Balatonfüred SY</b>						
Series	<b>01/1937</b>						
Age Date	<b>01/1937</b>						
Age Allowance	<b>0.487%</b>						
COMMENTS							
PROPELLER							
Installation	<b>In Aperture</b>	PRD	<b>0.350</b>				
Type	<b>Solid 2 blades</b>	PBW	<b>0.100</b>				
		PIPA	<b>0.0086</b>				
SCORING OPTIONS							
		COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance		<b>629.2</b>			<b>708.7</b>		
Time on Time		<b>0.9535</b>			<b>0.9524</b>		
Triple Number		Low	Medium	High	Low	Medium	High
Time on Distance		<b>770.5</b>	<b>568.3</b>	<b>494.0</b>	<b>1008.2</b>	<b>717.6</b>	<b>598.5</b>
Time on Time		<b>0.8761</b>	<b>1.1877</b>	<b>1.3664</b>	<b>0.6695</b>	<b>0.9407</b>	<b>1.1278</b>



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## ORC Club Certificate Appendix

<b>BOAT</b>		Certificate Number	027/18
Name	<b>Daruvar</b>	Issued On	<b>22/07/2018</b>
Sail Nr	<b>HUN 60-1</b>		

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1140.8</b>	<b>936.3</b>	<b>821.1</b>	<b>758.0</b>	<b>724.7</b>	<b>706.2</b>	<b>689.9</b>
52°	<b>737.1</b>	<b>613.9</b>	<b>536.9</b>	<b>502.1</b>	<b>487.3</b>	<b>479.3</b>	<b>471.8</b>
60°	<b>693.0</b>	<b>577.9</b>	<b>511.1</b>	<b>483.7</b>	<b>470.0</b>	<b>463.1</b>	<b>456.1</b>
75°	<b>659.0</b>	<b>548.7</b>	<b>493.4</b>	<b>470.2</b>	<b>455.9</b>	<b>445.3</b>	<b>434.4</b>
90°	<b>662.9</b>	<b>550.8</b>	<b>489.6</b>	<b>463.0</b>	<b>450.2</b>	<b>437.2</b>	<b>415.9</b>
110°	<b>678.8</b>	<b>551.1</b>	<b>485.5</b>	<b>457.8</b>	<b>438.9</b>	<b>421.9</b>	<b>404.6</b>
120°	<b>703.1</b>	<b>571.0</b>	<b>495.4</b>	<b>463.3</b>	<b>443.0</b>	<b>424.9</b>	<b>393.2</b>
135°	<b>788.4</b>	<b>637.1</b>	<b>535.7</b>	<b>484.2</b>	<b>458.7</b>	<b>439.6</b>	<b>404.2</b>
150°	<b>952.4</b>	<b>741.2</b>	<b>617.8</b>	<b>532.3</b>	<b>485.0</b>	<b>460.4</b>	<b>424.8</b>
Run VMG	<b>1099.7</b>	<b>856.2</b>	<b>713.4</b>	<b>611.5</b>	<b>546.5</b>	<b>498.3</b>	<b>450.1</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1120.2</b>	<b>896.2</b>	<b>767.2</b>	<b>684.7</b>	<b>635.6</b>	<b>602.2</b>	<b>570.0</b>
Circular Random	<b>916.3</b>	<b>730.4</b>	<b>628.2</b>	<b>567.5</b>	<b>529.8</b>	<b>505.4</b>	<b>476.7</b>
Coastal / Long Distance	<b>1118.2</b>	<b>839.0</b>	<b>682.7</b>	<b>587.3</b>	<b>538.3</b>	<b>503.3</b>	<b>452.0</b>
Non Spinnaker	<b>950.4</b>	<b>755.0</b>	<b>647.1</b>	<b>582.4</b>	<b>541.7</b>	<b>515.1</b>	<b>482.8</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>44.3°</b>	<b>42.8°</b>	<b>43.0°</b>	<b>43.4°</b>	<b>42.4°</b>	<b>41.8°</b>	<b>41.5°</b>
Beat VMG	<b>3.16</b>	<b>3.85</b>	<b>4.38</b>	<b>4.75</b>	<b>4.97</b>	<b>5.10</b>	<b>5.22</b>
52°	<b>4.88</b>	<b>5.86</b>	<b>6.71</b>	<b>7.17</b>	<b>7.39</b>	<b>7.51</b>	<b>7.63</b>
60°	<b>5.19</b>	<b>6.23</b>	<b>7.04</b>	<b>7.44</b>	<b>7.66</b>	<b>7.77</b>	<b>7.89</b>
75°	<b>5.46</b>	<b>6.56</b>	<b>7.30</b>	<b>7.66</b>	<b>7.90</b>	<b>8.08</b>	<b>8.29</b>
90°	<b>5.43</b>	<b>6.54</b>	<b>7.35</b>	<b>7.77</b>	<b>8.00</b>	<b>8.23</b>	<b>8.66</b>
110°	<b>5.30</b>	<b>6.53</b>	<b>7.42</b>	<b>7.86</b>	<b>8.20</b>	<b>8.53</b>	<b>8.90</b>
120°	<b>5.12</b>	<b>6.30</b>	<b>7.27</b>	<b>7.77</b>	<b>8.13</b>	<b>8.47</b>	<b>9.16</b>
135°	<b>4.57</b>	<b>5.65</b>	<b>6.72</b>	<b>7.43</b>	<b>7.85</b>	<b>8.19</b>	<b>8.91</b>
150°	<b>3.78</b>	<b>4.86</b>	<b>5.83</b>	<b>6.76</b>	<b>7.42</b>	<b>7.82</b>	<b>8.48</b>
Run VMG	<b>3.27</b>	<b>4.20</b>	<b>5.05</b>	<b>5.89</b>	<b>6.59</b>	<b>7.22</b>	<b>8.00</b>
Gybe Angles	<b>146.3°</b>	<b>150.8°</b>	<b>150.2°</b>	<b>153.2°</b>	<b>162.3°</b>	<b>180.0°</b>	<b>180.0°</b>