



World Leader in Rating Technology

## 2018 ORC Club Certificate

### Rating Office

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



### Certificate

Number **014/18**  
Issued On **08/06/2018**  
ORC Ref **HUN10014563**  
VPP Ver. **2018 1.00**  
Valid until **31/12/2018**

### Crew Weight

Default 755kg  
Maximum **500kg**  
Minimum\* **375kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

### Special Scoring

ToD ToT  
Non Spin GPH **656.3 0.9142**  
Non Spin OSN **637.4 0.9413**

### Sails Limitations

Headsails **5** Spinnakers **3**  
  
**Spinnaker configuration**  
Symmetric: **Yes 131.61**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

**CDL = 9.391**

### Stability (Estimated)

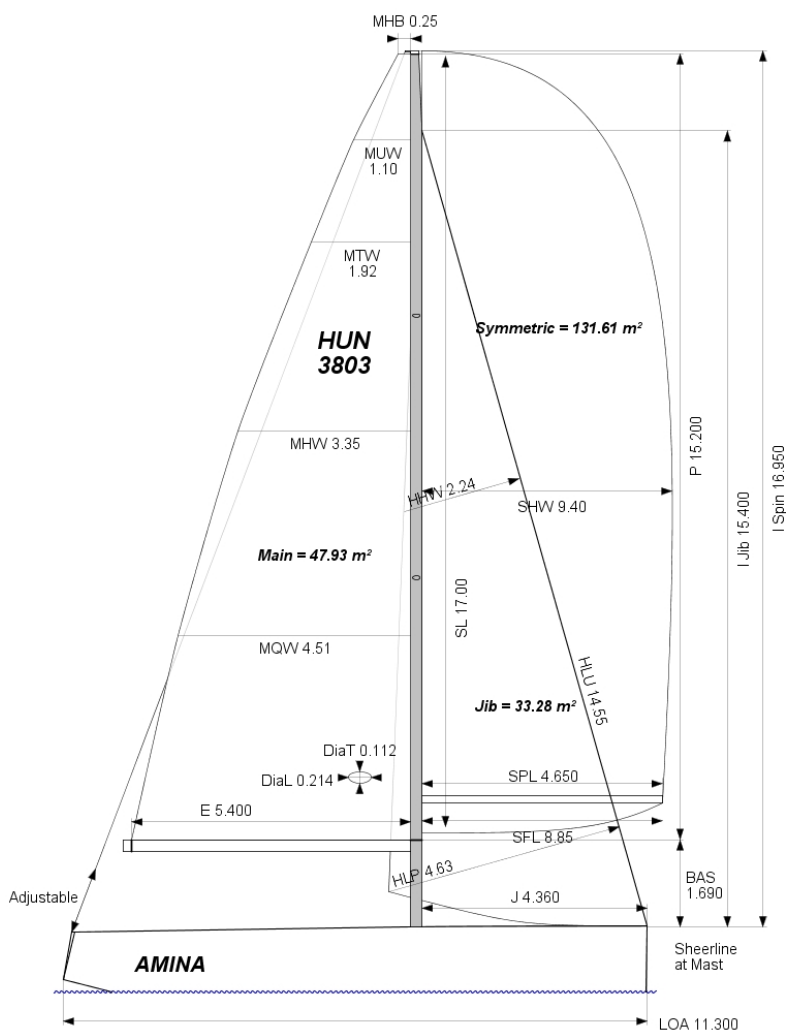
Limit Positive Stab.: **127.3°**  
Stability Index: **131.9**

### Owner

Gyula Adler  
Maglódi u. 55.  
Budapest  
HUNGARY

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

Signature



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>		
Name <b>Amina</b> Sail Nr <b>HUN-3803</b>		<b>616.6</b>		Data File <b>HUN3803</b>	LOA <b>11.300m</b>	
				Offset File <b>DEH38_SK_CLB</b>	MB <b>3.758m</b>	
				Displacement <b>8,105kg</b>	Draft <b>1.599m</b>	
				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.237%</b>	
				Fwd Accom. <b>Yes</b>	Construction <b>Cored</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>10.674m</b>	VCGD <b>0.000m</b>	Sink <b>23.26kg/mm</b>
				RL <b>8.106m</b>	VCGM <b>-0.121m</b>	WS <b>29.95m²</b>
				LSM0 <b>10.669m</b>	Displacement/Length ratio <b>6.6739</b>	
				Water Ballast <b>0</b>	Trim Tab <b>No</b>	
				BLR Index <b>0.0000</b>		
<b>CLASS</b>		<b>CENTERBOARD</b>				
Class <b>Dehler 38CS</b>		N/A				
Designer <b>Judel/Wrolijk</b>						
Builder <b>Hanse</b>						
Series <b>01/2013</b>						
Age Date <b>06/2013</b>						
Age Allowance <b>0.163%</b>						
<b>COMMENTS</b>						
<b>PROPELLER</b>						
Installation <b>Strut</b>		PRD <b>0.435</b>				
Type <b>Folding 2 blades</b>		PBW <b>0.135</b>				
		PIPA <b>0.0040</b>				
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>599.4</b>			<b>671.6</b>		
Time on Time	<b>1.0011</b>			<b>1.0050</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>709.3</b>	<b>545.4</b>	<b>486.3</b>	<b>918.5</b>	<b>676.4</b>	<b>584.7</b>
Time on Time	<b>0.9517</b>	<b>1.2376</b>	<b>1.3879</b>	<b>0.7349</b>	<b>0.9979</b>	<b>1.1544</b>



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# 2018 ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Amina</b>	Certificate Number <b>014/18</b>
Sail Nr <b>HUN-3803</b>	Issued On <b>08/06/2018</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1102.3</b>	<b>912.8</b>	<b>805.7</b>	<b>741.7</b>	<b>713.6</b>	<b>701.7</b>	<b>695.0</b>
52°	<b>709.0</b>	<b>597.0</b>	<b>529.1</b>	<b>497.7</b>	<b>484.3</b>	<b>479.0</b>	<b>476.2</b>
60°	<b>665.6</b>	<b>562.9</b>	<b>506.2</b>	<b>482.2</b>	<b>469.9</b>	<b>464.1</b>	<b>460.4</b>
75°	<b>633.0</b>	<b>536.8</b>	<b>491.3</b>	<b>470.5</b>	<b>457.1</b>	<b>447.1</b>	<b>436.4</b>
90°	<b>626.3</b>	<b>521.1</b>	<b>480.3</b>	<b>467.7</b>	<b>453.5</b>	<b>440.3</b>	<b>417.3</b>
110°	<b>608.8</b>	<b>505.3</b>	<b>467.1</b>	<b>446.4</b>	<b>432.9</b>	<b>422.5</b>	<b>404.9</b>
120°	<b>620.6</b>	<b>513.1</b>	<b>470.3</b>	<b>447.1</b>	<b>426.1</b>	<b>407.9</b>	<b>387.5</b>
135°	<b>677.0</b>	<b>553.3</b>	<b>488.7</b>	<b>460.6</b>	<b>439.2</b>	<b>417.3</b>	<b>376.4</b>
150°	<b>796.0</b>	<b>640.5</b>	<b>543.2</b>	<b>487.8</b>	<b>461.7</b>	<b>441.7</b>	<b>401.6</b>
Run VMG	<b>919.2</b>	<b>739.6</b>	<b>627.2</b>	<b>555.0</b>	<b>507.6</b>	<b>474.0</b>	<b>433.6</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1010.7</b>	<b>826.2</b>	<b>716.5</b>	<b>648.3</b>	<b>610.6</b>	<b>587.9</b>	<b>564.3</b>
Circular Random	<b>850.4</b>	<b>686.2</b>	<b>598.1</b>	<b>547.0</b>	<b>515.8</b>	<b>495.7</b>	<b>471.3</b>
Coastal / Long Distance	<b>1001.6</b>	<b>772.8</b>	<b>642.5</b>	<b>565.1</b>	<b>524.6</b>	<b>494.5</b>	<b>448.5</b>
Non Spinnaker	<b>924.0</b>	<b>737.7</b>	<b>635.5</b>	<b>574.9</b>	<b>537.5</b>	<b>513.7</b>	<b>486.2</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>44.9°</b>	<b>43.2°</b>	<b>43.1°</b>	<b>42.9°</b>	<b>42.0°</b>	<b>41.5°</b>	<b>41.3°</b>
Beat VMG	<b>3.27</b>	<b>3.94</b>	<b>4.47</b>	<b>4.85</b>	<b>5.04</b>	<b>5.13</b>	<b>5.18</b>
52°	<b>5.08</b>	<b>6.03</b>	<b>6.80</b>	<b>7.23</b>	<b>7.43</b>	<b>7.52</b>	<b>7.56</b>
60°	<b>5.41</b>	<b>6.40</b>	<b>7.11</b>	<b>7.47</b>	<b>7.66</b>	<b>7.76</b>	<b>7.82</b>
75°	<b>5.69</b>	<b>6.71</b>	<b>7.33</b>	<b>7.65</b>	<b>7.88</b>	<b>8.05</b>	<b>8.25</b>
90°	<b>5.75</b>	<b>6.91</b>	<b>7.50</b>	<b>7.70</b>	<b>7.94</b>	<b>8.18</b>	<b>8.63</b>
110°	<b>5.91</b>	<b>7.12</b>	<b>7.71</b>	<b>8.06</b>	<b>8.32</b>	<b>8.52</b>	<b>8.89</b>
120°	<b>5.80</b>	<b>7.02</b>	<b>7.66</b>	<b>8.05</b>	<b>8.45</b>	<b>8.82</b>	<b>9.29</b>
135°	<b>5.32</b>	<b>6.51</b>	<b>7.37</b>	<b>7.82</b>	<b>8.20</b>	<b>8.63</b>	<b>9.56</b>
150°	<b>4.52</b>	<b>5.62</b>	<b>6.63</b>	<b>7.38</b>	<b>7.80</b>	<b>8.15</b>	<b>8.96</b>
Run VMG	<b>3.92</b>	<b>4.87</b>	<b>5.74</b>	<b>6.49</b>	<b>7.09</b>	<b>7.60</b>	<b>8.30</b>
Gybe Angles	<b>142.2°</b>	<b>149.4°</b>	<b>149.9°</b>	<b>156.6°</b>	<b>172.9°</b>	<b>180.0°</b>	<b>180.0°</b>