



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

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

**Rating Office**

**Offshore**  
**Racing**  
**Congress**



**Certificate**

Number **078/20**  
Issued On **30/09/2020**  
ORC Ref **02920000R70**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 545kg  
Maximum **600kg**  
Minimum\* **450kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

ToD ToT  
Non Spin GPH **618.6 0.9699**  
Non Spin OSN **602.6 0.9957**

**Sails Limitations**

Headsails **5** Spinnakers **4**

**Spinnaker configuration**  
Symmetric: **Yes 87.06**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

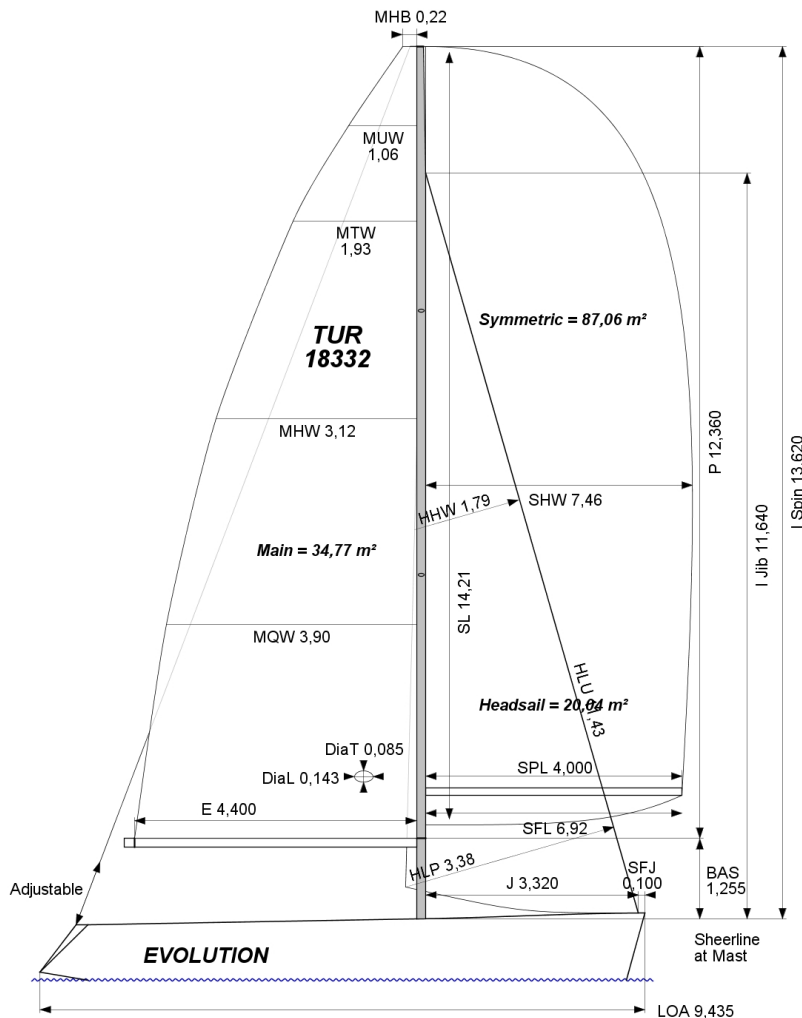
**Class Division Length**

**CDL = 9.035**

**Stability (Estimated)**

Limit Positive Stab.: **130.3°**  
Stability Index: **123.9**

**Owner**



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>					
Name <b>Evolution</b> Sail Nr <b>TUR-18332</b>		<b>579.9</b>		Data File <b>TUR18332</b>	LOA <b>9.435m</b>				
				Offset File <b>farr30.OD.off</b>	MB <b>3.038m</b>				
				Displacement <b>2,069kg</b>	Draft <b>2.119m</b>				
<b>CLASS</b>				IMS Division <b>Performance</b>	Dynamic All. <b>0.000%</b>				
Class <b>Farr 30</b>				Plan Review	Construction <b>Cored</b>				
Designer <b>Farr</b>				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>				
Builder				Crew Arm Ex	Carbon Rudder <b>Yes</b>				
Series <b>03/1996</b>				Light Stanchions <b>No</b>					
Age Date <b>03/1996</b>				IMSL <b>8.769m</b>	VCGD <b>-0.399m</b>	Sink <b>11.40kg/mm</b>			
Age Allowance <b>0.487%</b>				RL <b>9.317m</b>	VCGM <b>-0.331m</b>	WS <b>15.29m²</b>			
<b>COMMENTS</b>				LSM0 <b>8.489m</b>	Displacement/Length ratio <b>3.3821</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>0.352</b>		<b>N/A</b>					
Type <b>Folding 2 blades</b>		PBW <b>0.090</b>							
		PIPA <b>0.0032</b>							
<b>SCORING OPTIONS</b>									
	<b>COASTAL / LONG DISTANCE</b>				<b>WINDWARD / LEEWARD</b>				
Time on Distance	<b>564.7</b>				<b>632.4</b>				
Time on Time	<b>1.0626</b>				<b>1.0673</b>				
Triple Number	Low	Medium	High	Low	Medium	High			
Time on Distance	<b>646.6</b>	<b>521.4</b>	<b>458.0</b>	<b>824.4</b>	<b>637.6</b>	<b>556.0</b>			
Time on Time	<b>1.0440</b>	<b>1.2945</b>	<b>1.4739</b>	<b>0.8188</b>	<b>1.0587</b>	<b>1.2141</b>			

# 2020

## ORC Club Certificate Appendix

BOAT							
Name	<b>Evolution</b>	Certificate Number <b>078/20</b>					
Sail Nr	<b>TUR-18332</b>	Issued On <b>30/09/2020</b>					

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>940.0</b>	<b>775.4</b>	<b>712.7</b>	<b>691.8</b>	<b>683.1</b>	<b>670.3</b>	<b>668.7</b>
52°	<b>618.2</b>	<b>537.6</b>	<b>513.0</b>	<b>502.5</b>	<b>496.6</b>	<b>491.5</b>	<b>481.3</b>
60°	<b>584.6</b>	<b>524.5</b>	<b>499.2</b>	<b>484.7</b>	<b>476.2</b>	<b>471.5</b>	<b>457.1</b>
75°	<b>562.7</b>	<b>514.1</b>	<b>483.2</b>	<b>457.9</b>	<b>443.6</b>	<b>435.1</b>	<b>422.4</b>
90°	<b>568.8</b>	<b>513.2</b>	<b>481.1</b>	<b>448.2</b>	<b>421.3</b>	<b>402.3</b>	<b>384.8</b>
110°	<b>566.7</b>	<b>501.9</b>	<b>464.2</b>	<b>439.9</b>	<b>416.7</b>	<b>394.7</b>	<b>346.5</b>
120°	<b>580.1</b>	<b>505.8</b>	<b>459.9</b>	<b>423.0</b>	<b>398.8</b>	<b>377.2</b>	<b>335.2</b>
135°	<b>642.1</b>	<b>531.1</b>	<b>485.0</b>	<b>439.1</b>	<b>394.0</b>	<b>351.5</b>	<b>300.7</b>
150°	<b>760.5</b>	<b>609.6</b>	<b>528.8</b>	<b>486.4</b>	<b>445.0</b>	<b>402.5</b>	<b>316.7</b>
Run VMG	<b>878.1</b>	<b>703.9</b>	<b>607.4</b>	<b>550.9</b>	<b>507.4</b>	<b>466.8</b>	<b>365.7</b>
Selected Courses							
Windward / Leeward	<b>909.1</b>	<b>739.6</b>	<b>660.0</b>	<b>621.3</b>	<b>595.3</b>	<b>568.5</b>	<b>517.2</b>
Circular Random	<b>782.3</b>	<b>639.8</b>	<b>564.5</b>	<b>519.9</b>	<b>490.0</b>	<b>467.2</b>	<b>430.5</b>
Coastal / Long Distance	<b>906.0</b>	<b>699.3</b>	<b>601.3</b>	<b>544.1</b>	<b>506.7</b>	<b>471.2</b>	<b>410.2</b>
Non Spinnaker	<b>852.8</b>	<b>689.0</b>	<b>600.7</b>	<b>548.3</b>	<b>514.1</b>	<b>489.6</b>	<b>454.0</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>42.0°</b>	<b>40.1°</b>	<b>37.3°</b>	<b>36.2°</b>	<b>35.8°</b>	<b>35.3°</b>	<b>35.6°</b>
Beat VMG	<b>3.83</b>	<b>4.64</b>	<b>5.05</b>	<b>5.20</b>	<b>5.27</b>	<b>5.37</b>	<b>5.38</b>
52°	<b>5.82</b>	<b>6.70</b>	<b>7.02</b>	<b>7.16</b>	<b>7.25</b>	<b>7.32</b>	<b>7.48</b>
60°	<b>6.16</b>	<b>6.86</b>	<b>7.21</b>	<b>7.43</b>	<b>7.56</b>	<b>7.64</b>	<b>7.88</b>
75°	<b>6.40</b>	<b>7.00</b>	<b>7.45</b>	<b>7.86</b>	<b>8.12</b>	<b>8.27</b>	<b>8.52</b>
90°	<b>6.33</b>	<b>7.01</b>	<b>7.48</b>	<b>8.03</b>	<b>8.55</b>	<b>8.95</b>	<b>9.36</b>
110°	<b>6.35</b>	<b>7.17</b>	<b>7.76</b>	<b>8.18</b>	<b>8.64</b>	<b>9.12</b>	<b>10.39</b>
120°	<b>6.21</b>	<b>7.12</b>	<b>7.83</b>	<b>8.51</b>	<b>9.03</b>	<b>9.54</b>	<b>10.74</b>
135°	<b>5.61</b>	<b>6.78</b>	<b>7.42</b>	<b>8.20</b>	<b>9.14</b>	<b>10.24</b>	<b>11.97</b>
150°	<b>4.73</b>	<b>5.91</b>	<b>6.81</b>	<b>7.40</b>	<b>8.09</b>	<b>8.94</b>	<b>11.37</b>
Run VMG	<b>4.10</b>	<b>5.11</b>	<b>5.93</b>	<b>6.54</b>	<b>7.09</b>	<b>7.71</b>	<b>9.84</b>
Gybe Angles	<b>144.0°</b>	<b>146.0°</b>	<b>154.0°</b>	<b>162.0°</b>	<b>180.0°</b>	<b>151.0°</b>	<b>144.8°</b>