



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

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

**Rating Office**

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



**Certificate**

Number **070/20**  
Issued On **30/09/2020**  
ORC Ref **02920000R51**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 785kg  
Maximum **850kg**  
Minimum\* **638kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>563.2</b>	<b>1.0653</b>
Non Spin OSN	<b>549.8</b>	<b>1.0913</b>

**Sails Limitations**

Headsails **6** Spinnakers **4**

**Spinnaker configuration**  
Symmetric: **Yes 158.98**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

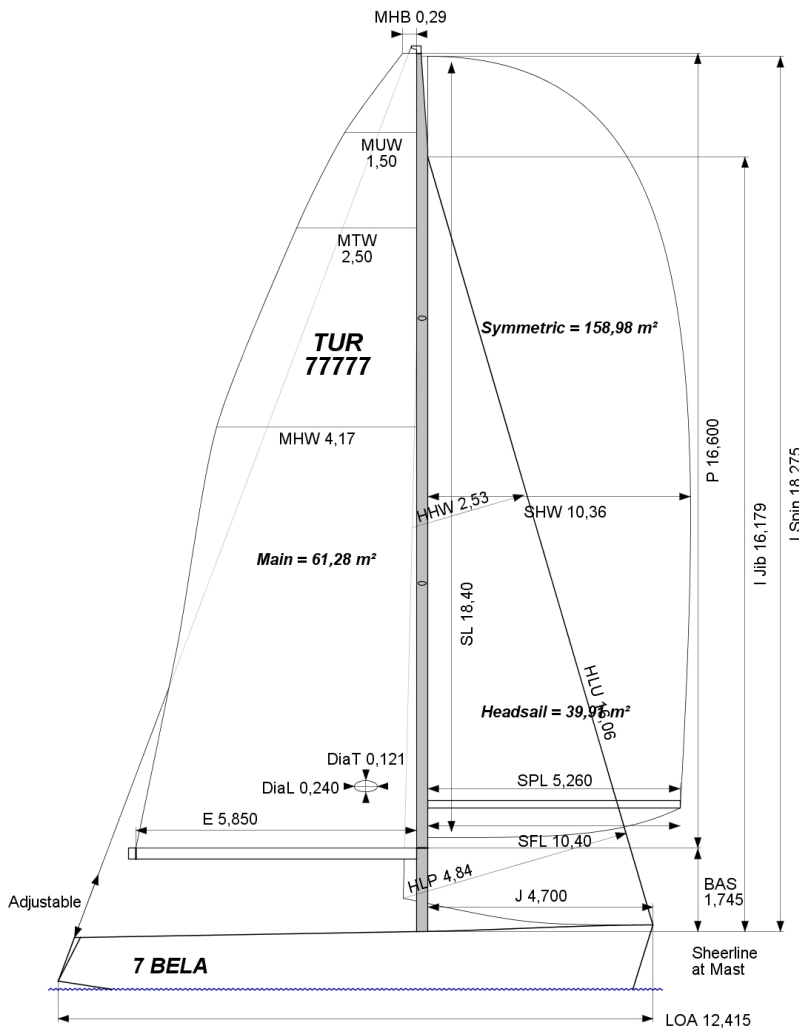
**Class Division Length**

**CDL = 11.326**

**Stability (Estimated)**

Limit Positive Stab.: **129.2°**  
Stability Index: **125.7**

**Owner**



BOAT		GPH	HULL			
Name <b>7 BELA</b> Sail Nr <b>TUR-77777</b>		<b>528.5</b>	Data File <b>TUR77777</b>	LOA <b>12.415m</b>		
			Offset File <b>FARR40.OD.OFF</b>	MB <b>3.956m</b>		
			Displacement <b>5,091kg</b>	Draft <b>2.598m</b>		
<b>CLASS</b>			IMS Division <b>Performance</b>	Dynamic All. <b>0.000%</b>		
Class <b>Farr 40</b>			Plan Review	Construction <b>Cored</b>		
Designer <b>Farr</b>			Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
Builder <b>Carroll</b>			Crew Arm Ex	Carbon Rudder <b>Yes</b>		
Series <b>01/1996</b>				Light Stanchions <b>No</b>		
Age Date <b>05/1998</b>			IMSL <b>11.245m</b>	VCGD <b>-0.311m</b>	Sink <b>21.12kg/mm</b>	
Age Allowance <b>0.487%</b>			RL <b>11.405m</b>	VCGM <b>-0.315m</b>	WS <b>27.90m²</b>	
<b>COMMENTS</b>			LSM0 <b>10.962m</b>	Displacement/Length ratio <b>3.8649</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>0.407</b>	<b>N/A</b>				
Type <b>Folding 2 blades</b>	PIPA <b>0.0035</b>					
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>514.4</b>			<b>575.9</b>		
Time on Time	<b>1.1665</b>			<b>1.1721</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>591.7</b>	<b>473.3</b>	<b>419.4</b>	<b>759.5</b>	<b>580.3</b>	<b>507.6</b>
Time on Time	<b>1.1408</b>	<b>1.4261</b>	<b>1.6095</b>	<b>0.8888</b>	<b>1.1631</b>	<b>1.3299</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>7 BELA</b>
Certificate Number	<b>070/20</b>
Sail Nr	<b>TUR-77777</b>
Issued On	<b>30/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>862.9</b>	<b>707.0</b>	<b>647.7</b>	<b>625.3</b>	<b>614.5</b>	<b>599.9</b>	<b>596.1</b>
52°	<b>566.0</b>	<b>481.0</b>	<b>457.9</b>	<b>449.1</b>	<b>444.1</b>	<b>438.6</b>	<b>430.4</b>
60°	<b>533.8</b>	<b>466.9</b>	<b>445.4</b>	<b>435.0</b>	<b>428.5</b>	<b>424.6</b>	<b>411.2</b>
75°	<b>509.7</b>	<b>457.4</b>	<b>432.0</b>	<b>412.7</b>	<b>402.2</b>	<b>395.6</b>	<b>384.1</b>
90°	<b>512.8</b>	<b>457.4</b>	<b>430.1</b>	<b>403.8</b>	<b>383.4</b>	<b>369.7</b>	<b>356.3</b>
110°	<b>527.9</b>	<b>453.5</b>	<b>423.4</b>	<b>403.0</b>	<b>384.1</b>	<b>367.2</b>	<b>326.5</b>
120°	<b>541.6</b>	<b>457.1</b>	<b>419.9</b>	<b>390.2</b>	<b>370.7</b>	<b>353.2</b>	<b>318.0</b>
135°	<b>597.4</b>	<b>483.0</b>	<b>439.2</b>	<b>403.1</b>	<b>368.0</b>	<b>334.0</b>	<b>289.5</b>
150°	<b>708.3</b>	<b>562.9</b>	<b>483.4</b>	<b>441.6</b>	<b>408.8</b>	<b>376.8</b>	<b>310.3</b>
Run VMG	<b>817.8</b>	<b>650.0</b>	<b>558.2</b>	<b>502.2</b>	<b>464.9</b>	<b>433.0</b>	<b>358.3</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>840.4</b>	<b>678.5</b>	<b>603.0</b>	<b>563.7</b>	<b>539.7</b>	<b>516.5</b>	<b>477.2</b>
Circular Random	<b>717.0</b>	<b>583.9</b>	<b>513.8</b>	<b>473.2</b>	<b>446.8</b>	<b>427.3</b>	<b>397.3</b>
Coastal / Long Distance	<b>838.1</b>	<b>640.0</b>	<b>547.3</b>	<b>493.3</b>	<b>460.9</b>	<b>430.8</b>	<b>380.0</b>
Non Spinnaker	<b>779.3</b>	<b>628.0</b>	<b>546.5</b>	<b>498.3</b>	<b>467.4</b>	<b>445.7</b>	<b>415.8</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>42.8°</b>	<b>41.1°</b>	<b>38.3°</b>	<b>37.5°</b>	<b>36.8°</b>	<b>36.0°</b>	<b>36.4°</b>
Beat VMG	<b>4.17</b>	<b>5.09</b>	<b>5.56</b>	<b>5.76</b>	<b>5.86</b>	<b>6.00</b>	<b>6.04</b>
52°	<b>6.36</b>	<b>7.49</b>	<b>7.86</b>	<b>8.02</b>	<b>8.11</b>	<b>8.21</b>	<b>8.36</b>
60°	<b>6.74</b>	<b>7.71</b>	<b>8.08</b>	<b>8.28</b>	<b>8.40</b>	<b>8.48</b>	<b>8.75</b>
75°	<b>7.06</b>	<b>7.87</b>	<b>8.33</b>	<b>8.72</b>	<b>8.95</b>	<b>9.10</b>	<b>9.37</b>
90°	<b>7.02</b>	<b>7.87</b>	<b>8.37</b>	<b>8.91</b>	<b>9.39</b>	<b>9.74</b>	<b>10.11</b>
110°	<b>6.82</b>	<b>7.94</b>	<b>8.50</b>	<b>8.93</b>	<b>9.37</b>	<b>9.80</b>	<b>11.03</b>
120°	<b>6.65</b>	<b>7.88</b>	<b>8.57</b>	<b>9.23</b>	<b>9.71</b>	<b>10.19</b>	<b>11.32</b>
135°	<b>6.03</b>	<b>7.45</b>	<b>8.20</b>	<b>8.93</b>	<b>9.78</b>	<b>10.78</b>	<b>12.44</b>
150°	<b>5.08</b>	<b>6.40</b>	<b>7.45</b>	<b>8.15</b>	<b>8.81</b>	<b>9.55</b>	<b>11.60</b>
Run VMG	<b>4.40</b>	<b>5.54</b>	<b>6.45</b>	<b>7.17</b>	<b>7.74</b>	<b>8.31</b>	<b>10.05</b>
Gybe Angles	<b>143.5°</b>	<b>143.3°</b>	<b>150.0°</b>	<b>157.0°</b>	<b>172.0°</b>	<b>157.0°</b>	<b>144.5°</b>