



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2020**  
**ORC Club One**  
**Design Certificate**

**Rating Office**

**Certificate**

Number  
Issued On **10/01/2020**  
ORC Ref **N/A**  
VPP Ver. **2020 1.00**

**Invalid for Racing**

**Crew Weight**

Default 266kg  
Maximum **279kg**  
Minimum\* **194kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

ToD ToT  
Non Spin GPH **727.7 0.8245**  
Non Spin OSN **703.2 0.8532**

**Sails Limitations**

Headsails **1** Spinnakers **4**  
**Woven Polyester**  
**Asymmetric on centerline**  
**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 41.52**  
Flying H/S: **No**  
Spin. Pole: **No**

**Class Division Length**

CDL = **5.979**

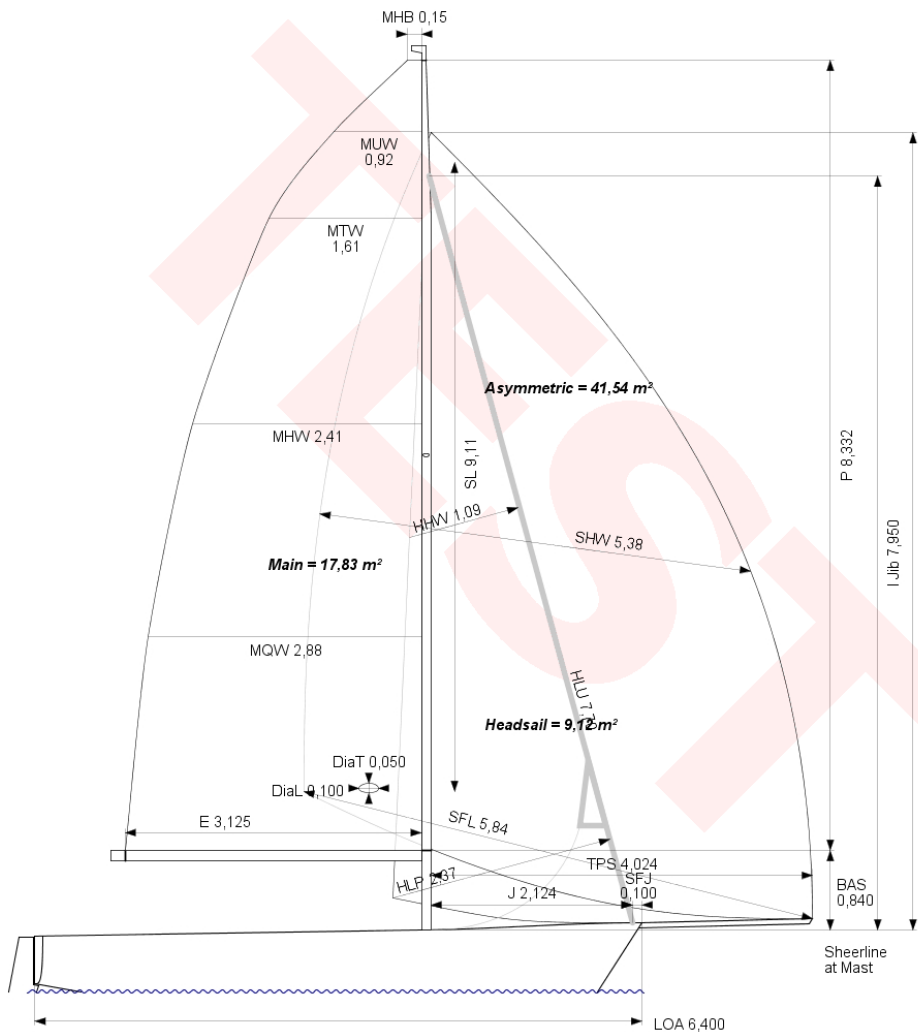
**Stability (Estimated)**

Limit Positive Stab.: **110.2°**  
Stability Index: **100.6**

**Owner**

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

Signature



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>						
Name		<b>676.1</b>		Data File	<b>Ultimate20</b>	LOA	<b>6.400m</b>			
Sail Nr				Offset File	<b>Ultimate20.od</b>	MB	<b>2.558m</b>			
<b>CLASS</b>				Displacement	<b>558kg</b>	Draft	<b>1.505m</b>			
Class		<b>Ultimate 20</b>		IMS Division	<b>Sportboat</b>	Dynamic All.	<b>0.000%</b>			
Designer		<b>Canepa</b>		Plan Review		Construction	<b>Light</b>			
Builder		<b>CBZ</b>		Fiber Rigging	<b>No</b>	Aramid Core	<b>No</b>			
Series		<b>01/1995</b>		Crew Arm Ex		Carbon Rudder	<b>No</b>			
Age Date						Light Stanchions	<b>No</b>			
Age Allowance		<b>0.487%</b>		IMSL	<b>5.483m</b>	VCGD	<b>-0.250m</b>	Sink	<b>6.41kg/mm</b>	
<b>COMMENTS</b>				RL	<b>6.485m</b>	VCGM	<b>-0.204m</b>	WS	<b>8.02m²</b>	
Based on CR Weight with Outboard Engine				LSM0	<b>5.128m Displacement/Length ratio 4.1380</b>					
<b>PROPELLER</b>				Water Ballast	<b>0</b>		Trim Tab	<b>No</b>		
Type <b>No Propeller</b>				BLR Index	<b>0.0000</b>					
<b>SCORING OPTIONS</b>				<b>CENTERBOARD</b>						
				<b>N/A</b>						
		<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>					
Time on Distance	<b>657.5</b>			<b>752.4</b>						
Time on Time	<b>0.9125</b>			<b>0.8971</b>						
Triple Number	Low	Medium	High	Low	Medium	High				
Time on Distance	<b>767.0</b>	<b>606.7</b>	<b>512.7</b>	<b>977.7</b>	<b>760.6</b>	<b>646.8</b>				
Time on Time	<b>0.8800</b>	<b>1.1126</b>	<b>1.3166</b>	<b>0.6904</b>	<b>0.8875</b>	<b>1.0436</b>				



**ORC**

Offshore Racing Congress  
World leader in rating technology

# 2020

## ORC Club Certificate Appendix

BOAT	
Name	Certificate Number
Sail Nr	Issued On <b>10/01/2020</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1148.2</b>	<b>957.5</b>	<b>860.1</b>	<b>829.2</b>	<b>820.7</b>	<b>816.1</b>	<b>808.1</b>
52°	<b>758.1</b>	<b>652.8</b>	<b>606.5</b>	<b>578.9</b>	<b>570.2</b>	<b>565.4</b>	<b>551.4</b>
60°	<b>717.6</b>	<b>634.1</b>	<b>586.0</b>	<b>551.5</b>	<b>540.6</b>	<b>533.7</b>	<b>515.8</b>
75°	<b>688.0</b>	<b>616.4</b>	<b>568.3</b>	<b>520.9</b>	<b>493.7</b>	<b>481.3</b>	<b>466.9</b>
90°	<b>666.7</b>	<b>587.6</b>	<b>543.6</b>	<b>513.7</b>	<b>468.8</b>	<b>436.1</b>	<b>407.0</b>
110°	<b>661.1</b>	<b>578.8</b>	<b>510.4</b>	<b>463.7</b>	<b>435.0</b>	<b>402.1</b>	<b>325.4</b>
120°	<b>676.5</b>	<b>590.9</b>	<b>525.5</b>	<b>456.8</b>	<b>405.6</b>	<b>368.3</b>	<b>303.0</b>
135°	<b>739.1</b>	<b>629.2</b>	<b>563.3</b>	<b>502.1</b>	<b>442.7</b>	<b>373.3</b>	<b>262.7</b>
150°	<b>868.5</b>	<b>694.7</b>	<b>621.8</b>	<b>568.7</b>	<b>513.2</b>	<b>457.5</b>	<b>307.5</b>
Run VMG	<b>1002.8</b>	<b>802.2</b>	<b>717.4</b>	<b>656.6</b>	<b>592.6</b>	<b>528.2</b>	<b>355.1</b>
Selected Courses							
Windward / Leeward	<b>1075.5</b>	<b>879.9</b>	<b>788.7</b>	<b>742.9</b>	<b>706.7</b>	<b>672.2</b>	<b>581.6</b>
Circular Random	<b>923.3</b>	<b>751.7</b>	<b>658.4</b>	<b>600.4</b>	<b>558.9</b>	<b>524.7</b>	<b>464.9</b>
Coastal / Long Distance	<b>1068.3</b>	<b>829.3</b>	<b>712.4</b>	<b>635.2</b>	<b>580.4</b>	<b>530.5</b>	<b>433.2</b>
Non Spinnaker	<b>1009.8</b>	<b>813.5</b>	<b>706.6</b>	<b>641.9</b>	<b>598.7</b>	<b>565.9</b>	<b>512.0</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>42.4°</b>	<b>41.6°</b>	<b>38.6°</b>	<b>37.5°</b>	<b>37.3°</b>	<b>37.1°</b>	<b>37.9°</b>
Beat VMG	<b>3.14</b>	<b>3.76</b>	<b>4.19</b>	<b>4.34</b>	<b>4.39</b>	<b>4.41</b>	<b>4.45</b>
52°	<b>4.75</b>	<b>5.51</b>	<b>5.94</b>	<b>6.22</b>	<b>6.31</b>	<b>6.37</b>	<b>6.53</b>
60°	<b>5.02</b>	<b>5.68</b>	<b>6.14</b>	<b>6.53</b>	<b>6.66</b>	<b>6.74</b>	<b>6.98</b>
75°	<b>5.23</b>	<b>5.84</b>	<b>6.33</b>	<b>6.91</b>	<b>7.29</b>	<b>7.48</b>	<b>7.71</b>
90°	<b>5.40</b>	<b>6.13</b>	<b>6.62</b>	<b>7.01</b>	<b>7.68</b>	<b>8.26</b>	<b>8.84</b>
110°	<b>5.45</b>	<b>6.22</b>	<b>7.05</b>	<b>7.76</b>	<b>8.28</b>	<b>8.95</b>	<b>11.06</b>
120°	<b>5.32</b>	<b>6.09</b>	<b>6.85</b>	<b>7.88</b>	<b>8.88</b>	<b>9.77</b>	<b>11.88</b>
135°	<b>4.87</b>	<b>5.72</b>	<b>6.39</b>	<b>7.17</b>	<b>8.13</b>	<b>9.64</b>	<b>13.70</b>
150°	<b>4.15</b>	<b>5.18</b>	<b>5.79</b>	<b>6.33</b>	<b>7.01</b>	<b>7.87</b>	<b>11.71</b>
Run VMG	<b>3.59</b>	<b>4.49</b>	<b>5.02</b>	<b>5.48</b>	<b>6.07</b>	<b>6.82</b>	<b>10.14</b>
Gybe Angles	<b>145.0°</b>	<b>150.0°</b>	<b>151.3°</b>	<b>148.0°</b>	<b>145.0°</b>	<b>142.5°</b>	<b>139.5°</b>