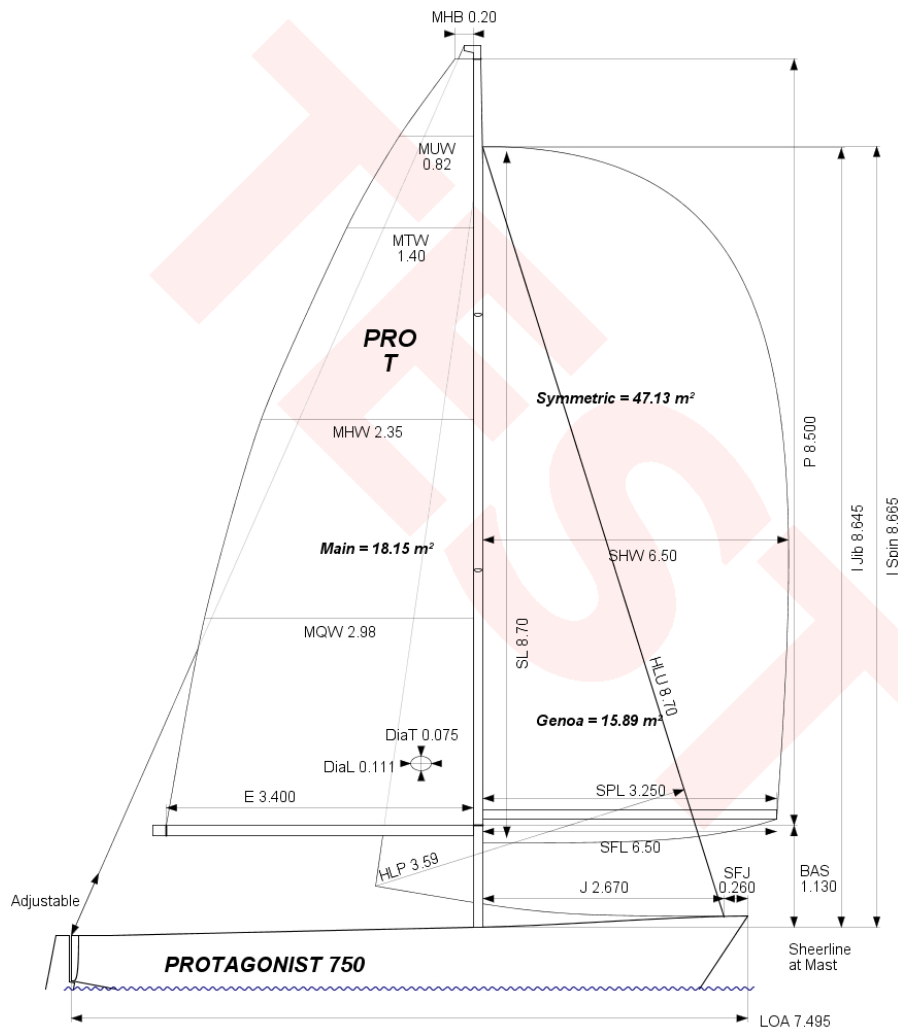




World Leader in Rating Technology

## 2019 (Test) ORC Club One Design Certificate



### Rating Office

### Certificate

Number **P750**  
Issued On **15/01/2019**  
ORC Ref **N/A**  
VPP Ver. **2019 1.01**

**Invalid for Racing**

### Crew Weight

Default 359kg  
Maximum **255kg**  
Minimum\* **170kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Non Spin GPH	<b>686.2</b>	<b>0.8744</b>
Non Spin OSN	<b>668.7</b>	<b>0.8973</b>

### Sails Limitations

Headsails **5** Spinnakers **3**

**Spinnaker configuration**  
Symmetric: **Yes** 47.13  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

CDL = **7.021**

### Stability (Estimated)

Limit Positive Stab.: **107.5°**  
Stability Index: **99.0**

### Owner

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

Signature

BOAT	GPH	HULL
Name <b>PROTAGONIST 750</b> Sail Nr <b>PROT-</b>	<b>652.4</b>	Data File <b>prot750</b> LOA <b>7.495m</b> Offset File <b>prot750.od</b> MB <b>2.422m</b> Displacement <b>850kg</b> Draft <b>1.760m</b>
<b>CLASS</b> Class <b>PROTAGONIST 750</b> Designer <b>BADINELLI</b> Builder <b>PROTAGONIST</b> Series <b>09/1996</b> Age Date <b>06/2005</b> Age Allowance <b>0.487%</b>		IMS Division <b>Sportboat</b> Dynamic All. <b>0.001%</b> Fwd Accom. <b>No</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>
<b>COMMENTS</b>		IMSL <b>6.916m</b> VCGD <b>-0.190m</b> Sink <b>7.24kg/mm</b> RL <b>7.124m</b> VCGM <b>-0.092m</b> WS <b>9.27m²</b> LSMO <b>6.335m</b> Displacement/Length ratio <b>3.3433</b>
<b>PROPELLER</b> Type <b>No Propeller</b>		Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>
		<b>CENTERBOARD</b> <b>N/A</b>
<b>SCORING OPTIONS</b>		
	<b>COASTAL / LONG DISTANCE</b>	<b>WINDWARD / LEEWARD</b>
Time on Distance	<b>636.3</b>	<b>716.4</b>
Time on Time	<b>0.9430</b>	<b>0.9422</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>728.2 585.8 517.2</b>	<b>931.5 721.6 632.6</b>
Time on Time	<b>0.9270 1.1522 1.3051</b>	<b>0.7246 0.9354 1.0670</b>



World Leader in Rating Technology

# 2019 (Test)

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>PROTAGONIST 750</b>	Certificate Number	<b>P750</b>
Sail Nr	<b>PROT-</b>	Issued On	<b>15/01/2019</b>

<b>TIME ALLOWANCES</b>								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	<b>1032.3</b>	<b>863.6</b>	<b>808.4</b>	<b>791.1</b>	<b>785.1</b>	<b>781.1</b>	<b>780.9</b>	
52°	<b>683.7</b>	<b>602.2</b>	<b>578.1</b>	<b>568.2</b>	<b>563.3</b>	<b>561.5</b>	<b>549.4</b>	
60°	<b>650.5</b>	<b>587.4</b>	<b>559.7</b>	<b>546.1</b>	<b>538.9</b>	<b>534.8</b>	<b>520.1</b>	
75°	<b>628.4</b>	<b>575.2</b>	<b>537.4</b>	<b>512.0</b>	<b>499.4</b>	<b>492.3</b>	<b>479.4</b>	
90°	<b>631.0</b>	<b>573.3</b>	<b>532.2</b>	<b>494.2</b>	<b>466.2</b>	<b>451.1</b>	<b>436.3</b>	
110°	<b>642.7</b>	<b>564.2</b>	<b>512.8</b>	<b>481.9</b>	<b>455.9</b>	<b>436.1</b>	<b>386.1</b>	
120°	<b>659.3</b>	<b>570.3</b>	<b>514.0</b>	<b>464.9</b>	<b>432.8</b>	<b>412.5</b>	<b>367.7</b>	
135°	<b>735.9</b>	<b>604.2</b>	<b>544.2</b>	<b>489.9</b>	<b>435.9</b>	<b>389.0</b>	<b>321.6</b>	
150°	<b>885.9</b>	<b>699.3</b>	<b>599.1</b>	<b>542.3</b>	<b>493.5</b>	<b>444.4</b>	<b>347.0</b>	
Run VMG	<b>1023.0</b>	<b>807.4</b>	<b>687.9</b>	<b>614.2</b>	<b>562.0</b>	<b>513.1</b>	<b>400.7</b>	

<b>Selected Courses</b>								
Windward / Leeward	<b>1027.6</b>	<b>835.5</b>	<b>748.2</b>	<b>702.6</b>	<b>673.5</b>	<b>647.1</b>	<b>590.8</b>	
Circular Random	<b>880.4</b>	<b>719.8</b>	<b>634.9</b>	<b>585.0</b>	<b>552.2</b>	<b>527.4</b>	<b>486.9</b>	
Coastal / Long Distance	<b>1027.2</b>	<b>789.9</b>	<b>679.3</b>	<b>611.9</b>	<b>568.9</b>	<b>531.3</b>	<b>462.0</b>	
Non Spinnaker	<b>938.7</b>	<b>761.4</b>	<b>666.7</b>	<b>611.0</b>	<b>575.1</b>	<b>549.3</b>	<b>511.8</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>41.7°</b>	<b>39.8°</b>	<b>37.5°</b>	<b>37.2°</b>	<b>37.2°</b>	<b>37.1°</b>	<b>38.0°</b>	
Beat VMG	<b>3.49</b>	<b>4.17</b>	<b>4.45</b>	<b>4.55</b>	<b>4.59</b>	<b>4.61</b>	<b>4.61</b>	
52°	<b>5.27</b>	<b>5.98</b>	<b>6.23</b>	<b>6.34</b>	<b>6.39</b>	<b>6.41</b>	<b>6.55</b>	
60°	<b>5.53</b>	<b>6.13</b>	<b>6.43</b>	<b>6.59</b>	<b>6.68</b>	<b>6.73</b>	<b>6.92</b>	
75°	<b>5.73</b>	<b>6.26</b>	<b>6.70</b>	<b>7.03</b>	<b>7.21</b>	<b>7.31</b>	<b>7.51</b>	
90°	<b>5.71</b>	<b>6.28</b>	<b>6.76</b>	<b>7.28</b>	<b>7.72</b>	<b>7.98</b>	<b>8.25</b>	
110°	<b>5.60</b>	<b>6.38</b>	<b>7.02</b>	<b>7.47</b>	<b>7.90</b>	<b>8.25</b>	<b>9.32</b>	
120°	<b>5.46</b>	<b>6.31</b>	<b>7.00</b>	<b>7.74</b>	<b>8.32</b>	<b>8.73</b>	<b>9.79</b>	
135°	<b>4.89</b>	<b>5.96</b>	<b>6.62</b>	<b>7.35</b>	<b>8.26</b>	<b>9.25</b>	<b>11.19</b>	
150°	<b>4.06</b>	<b>5.15</b>	<b>6.01</b>	<b>6.64</b>	<b>7.29</b>	<b>8.10</b>	<b>10.37</b>	
Run VMG	<b>3.52</b>	<b>4.46</b>	<b>5.23</b>	<b>5.86</b>	<b>6.41</b>	<b>7.02</b>	<b>8.98</b>	
Gybe Angles	<b>144.5°</b>	<b>147.4°</b>	<b>154.8°</b>	<b>168.3°</b>	<b>180.0°</b>	<b>149.8°</b>	<b>142.1°</b>	