



## 2020 ORC Club Certificate

**Rating Office**

Offshore  
Racing  
Congress

**COPY ONLY  
INVALID for  
RACING**

World Leader In Rating Technology

**Certificate**

Number **C03/20**  
 Issued On **04/06/2020**  
 ORC Ref **03090000JRN**  
 VPP Ver. **2020 1.02**  
 Valid until **31/12/2020**

**Crew Weight**

Default 402kg  
 Maximum 375kg  
 Minimum\* 281kg  
\*when applied by the NoR and SI  
 Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	760.6	0.7889
Non Spin OSN	735.4	0.8158

**Sails Limitations**

Headsails **5** Spinnakers **4**  
**Woven Polyester**

**Spinnaker configuration**  
 Symmetric: **Yes** 42.55  
 Asymmetric: **No**  
 Flying H/S: **No**  
 Spin. Pole: **Yes**

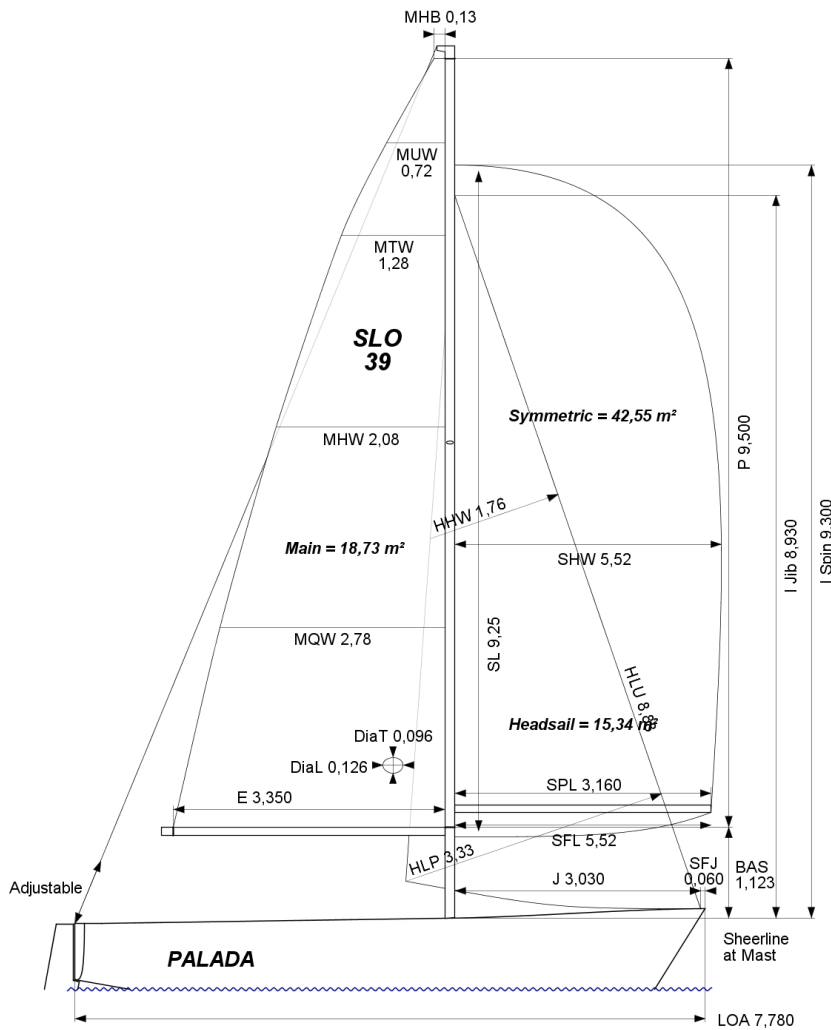
**Class Division Length**

CDL = **6.548**

**Stability (Estimated)**

Limit Positive Stab.: **121.4°**  
 Stability Index: **118.2**

**Owner**



BOAT	GPH	HULL
Name <b>Palada</b> Sail Nr <b>SLO 39</b>	<b>725.6</b>	Data File <b>SLO39</b> LOA <b>7.780m</b> Offset File <b>ELEXPRES.OFF</b> MB <b>2.494m</b> Displacement <b>1,849kg</b> Draft <b>1.432m</b>
<b>CLASS</b> Class <b>Elan Express</b> Designer <b>Norlin</b> Builder <b>Elan</b> Series <b>01/1981</b> Age Date <b>01/1984</b> Age Allowance <b>0.487%</b>		IMS Division <b>Sportboat</b> Dynamic All. <b>0.196%</b> Plan Review 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>6.925m</b> VCGD <b>-0.086m</b> Sink <b>9.24kg/mm</b> RL <b>6.170m</b> VCGM <b>-0.084m</b> WS <b>12.73m²</b> LSMO <b>6.864m</b> Displacement/Length ratio <b>5.7175</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>
<b>PROPELLER</b> Type <b>No Propeller</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>705.3</b>	<b>785.4</b>
Time on Time	<b>0.8508</b>	<b>0.8594</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>824.7 644.4 579.0</b>	<b>1064.8 786.2 694.7</b>
Time on Time	<b>0.8185 1.0475 1.1658</b>	<b>0.6339 0.8586 0.9716</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>		Certificate Number	<b>C03/20</b>
Name	<b>Palada</b>	Issued On	<b>04/06/2020</b>
Sail Nr	<b>SLO 39</b>		

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1236.8</b>	<b>1031.3</b>	<b>911.8</b>	<b>850.1</b>	<b>834.5</b>	<b>832.3</b>	<b>838.9</b>
52°	<b>806.0</b>	<b>681.0</b>	<b>624.2</b>	<b>599.6</b>	<b>589.8</b>	<b>586.5</b>	<b>585.5</b>
60°	<b>761.3</b>	<b>649.7</b>	<b>607.1</b>	<b>585.3</b>	<b>572.8</b>	<b>567.9</b>	<b>567.4</b>
75°	<b>730.1</b>	<b>629.4</b>	<b>593.6</b>	<b>571.3</b>	<b>552.3</b>	<b>538.3</b>	<b>529.3</b>
90°	<b>718.1</b>	<b>613.4</b>	<b>575.2</b>	<b>555.2</b>	<b>542.8</b>	<b>522.6</b>	<b>494.6</b>
110°	<b>711.6</b>	<b>606.3</b>	<b>566.8</b>	<b>533.5</b>	<b>505.4</b>	<b>487.9</b>	<b>465.2</b>
120°	<b>734.3</b>	<b>617.1</b>	<b>573.1</b>	<b>539.5</b>	<b>506.8</b>	<b>478.2</b>	<b>439.4</b>
135°	<b>811.1</b>	<b>667.4</b>	<b>596.6</b>	<b>562.5</b>	<b>529.4</b>	<b>497.1</b>	<b>434.0</b>
150°	<b>960.3</b>	<b>764.5</b>	<b>650.3</b>	<b>592.1</b>	<b>560.9</b>	<b>530.2</b>	<b>471.7</b>
Run VMG	<b>1108.8</b>	<b>882.7</b>	<b>745.7</b>	<b>655.4</b>	<b>599.7</b>	<b>567.9</b>	<b>510.2</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1172.8</b>	<b>957.0</b>	<b>828.8</b>	<b>752.8</b>	<b>717.1</b>	<b>700.1</b>	<b>674.5</b>
Circular Random	<b>992.1</b>	<b>804.2</b>	<b>704.3</b>	<b>646.9</b>	<b>612.1</b>	<b>589.5</b>	<b>560.6</b>
Coastal / Long Distance	<b>1166.4</b>	<b>897.8</b>	<b>750.4</b>	<b>666.4</b>	<b>624.5</b>	<b>590.4</b>	<b>532.7</b>
Non Spinnaker	<b>1054.9</b>	<b>848.3</b>	<b>737.1</b>	<b>672.8</b>	<b>633.9</b>	<b>609.2</b>	<b>579.0</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>43.5°</b>	<b>42.4°</b>	<b>41.3°</b>	<b>39.4°</b>	<b>39.0°</b>	<b>39.0°</b>	<b>39.9°</b>
Beat VMG	<b>2.91</b>	<b>3.49</b>	<b>3.95</b>	<b>4.23</b>	<b>4.31</b>	<b>4.33</b>	<b>4.29</b>
52°	<b>4.47</b>	<b>5.29</b>	<b>5.77</b>	<b>6.00</b>	<b>6.10</b>	<b>6.14</b>	<b>6.15</b>
60°	<b>4.73</b>	<b>5.54</b>	<b>5.93</b>	<b>6.15</b>	<b>6.29</b>	<b>6.34</b>	<b>6.34</b>
75°	<b>4.93</b>	<b>5.72</b>	<b>6.06</b>	<b>6.30</b>	<b>6.52</b>	<b>6.69</b>	<b>6.80</b>
90°	<b>5.01</b>	<b>5.87</b>	<b>6.26</b>	<b>6.48</b>	<b>6.63</b>	<b>6.89</b>	<b>7.28</b>
110°	<b>5.06</b>	<b>5.94</b>	<b>6.35</b>	<b>6.75</b>	<b>7.12</b>	<b>7.38</b>	<b>7.74</b>
120°	<b>4.90</b>	<b>5.83</b>	<b>6.28</b>	<b>6.67</b>	<b>7.10</b>	<b>7.53</b>	<b>8.19</b>
135°	<b>4.44</b>	<b>5.39</b>	<b>6.03</b>	<b>6.40</b>	<b>6.80</b>	<b>7.24</b>	<b>8.30</b>
150°	<b>3.75</b>	<b>4.71</b>	<b>5.54</b>	<b>6.08</b>	<b>6.42</b>	<b>6.79</b>	<b>7.63</b>
Run VMG	<b>3.25</b>	<b>4.08</b>	<b>4.83</b>	<b>5.49</b>	<b>6.00</b>	<b>6.34</b>	<b>7.06</b>
Gybe Angles	<b>147.0°</b>	<b>151.0°</b>	<b>153.5°</b>	<b>170.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>