



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

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **135/20**  
Issued On **04/08/2020**  
ORC Ref **03880000NVW**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 678kg  
Maximum **790kg**  
Minimum\* **593kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>638.0</b>	<b>0.9404</b>
Non Spin OSN	<b>619.4</b>	<b>0.9687</b>

**Sails Limitations**

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

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 130.17**  
Flying H/S: **No**  
Spin. Pole: **No**

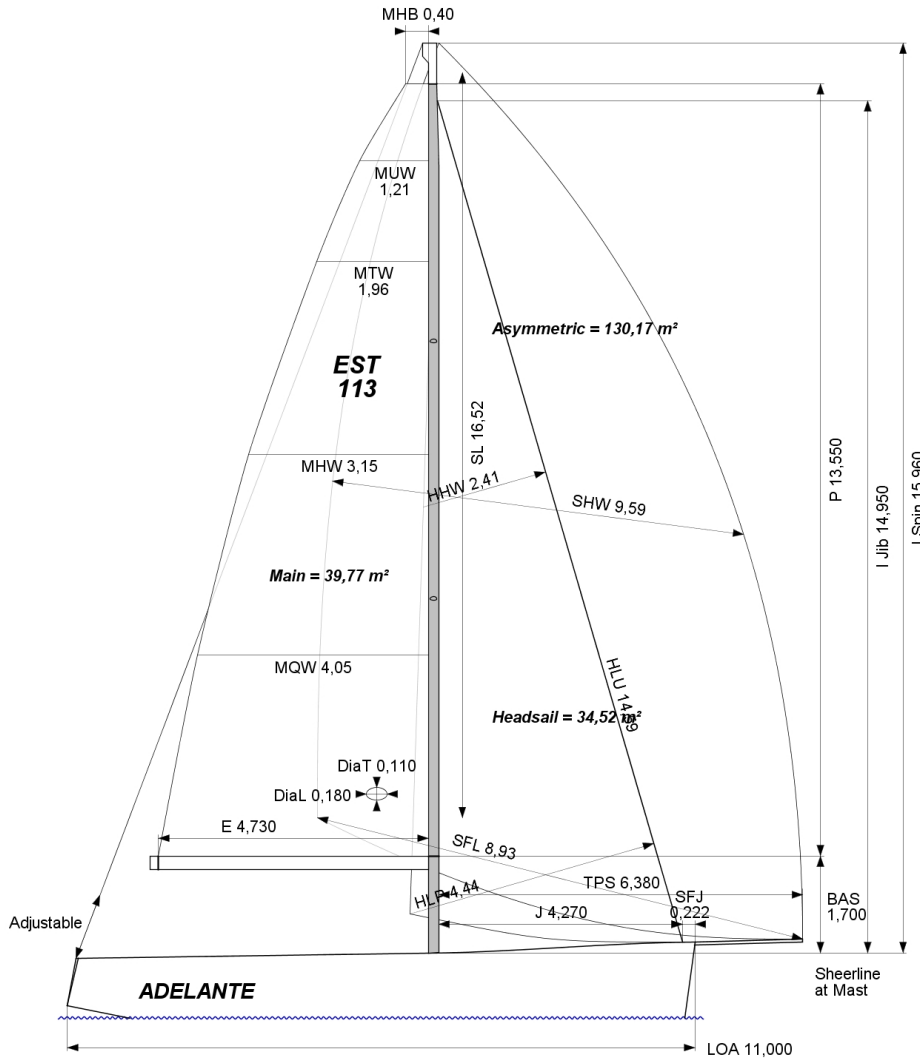
**Class Division Length**

**CDL = 9.629**

**Stability (Measured)**

Limit Positive Stab.: **122.3°**  
Stability Index: **121.5**

**Owner**



BOAT	GPH	HULL
Name <b>Adelante</b> Sail Nr <b>EST-113</b>	<b>595.6</b>	Data File <b>EST113</b> LOA <b>11.000m</b> Offset File <b>J112E_EST113.o</b> MB <b>3.596m</b> Displacement <b>5,170kg</b> Draft <b>2.044m</b>
<b>CLASS</b> Class <b>J-112E</b> Designer <b>JOHNSTONE</b> Builder <b>J-BOATS</b> Series <b>10/2015</b> Age Date <b>05/2020</b> Age Allowance <b>0.163%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.128%</b> Plan Review Construction <b>Cored</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>Yes</b> Light Stanchions <b>No</b>
<b>COMMENTS</b>		IMSL <b>10.034m</b> VCGD <b>-0.041m</b> Sink <b>18.71kg/mm</b> RL <b>9.235m</b> VCGM <b>-0.079m</b> WS <b>25.66m²</b> LSMO <b>9.896m</b> Displacement/Length ratio <b>5.3347</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.425</b> Type <b>Folding 2 blades</b> PBW <b>0.100</b> PIPA <b>0.0031</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>579.7</b>	<b>652.4</b>
Time on Time	<b>1.0351</b>	<b>1.0346</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>678.7 528.2 474.2</b>	<b>879.7 652.7 578.2</b>
Time on Time	<b>0.9946 1.2779 1.4235</b>	<b>0.7673 1.0342 1.1674</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>Adelante</b>	Certificate Number <b>135/20</b>
Sail Nr <b>EST-113</b>	Issued On <b>04/08/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1025.8</b>	<b>841.6</b>	<b>737.2</b>	<b>694.8</b>	<b>678.8</b>	<b>672.3</b>	<b>658.3</b>
52°	<b>665.6</b>	<b>557.5</b>	<b>506.5</b>	<b>487.4</b>	<b>480.5</b>	<b>477.2</b>	<b>471.1</b>
60°	<b>625.3</b>	<b>531.9</b>	<b>492.9</b>	<b>475.3</b>	<b>466.8</b>	<b>462.4</b>	<b>457.4</b>
75°	<b>597.2</b>	<b>514.6</b>	<b>482.7</b>	<b>463.4</b>	<b>448.4</b>	<b>438.2</b>	<b>430.1</b>
90°	<b>596.2</b>	<b>503.0</b>	<b>475.5</b>	<b>460.8</b>	<b>442.1</b>	<b>424.5</b>	<b>400.8</b>
110°	<b>583.2</b>	<b>493.6</b>	<b>459.6</b>	<b>434.7</b>	<b>419.2</b>	<b>406.6</b>	<b>382.0</b>
120°	<b>597.2</b>	<b>500.0</b>	<b>463.3</b>	<b>433.5</b>	<b>406.5</b>	<b>387.7</b>	<b>359.9</b>
135°	<b>672.1</b>	<b>538.5</b>	<b>482.2</b>	<b>452.4</b>	<b>423.1</b>	<b>395.0</b>	<b>335.0</b>
150°	<b>795.6</b>	<b>634.6</b>	<b>535.7</b>	<b>486.8</b>	<b>465.4</b>	<b>443.4</b>	<b>392.2</b>
Run VMG	<b>918.7</b>	<b>732.8</b>	<b>618.6</b>	<b>561.5</b>	<b>535.1</b>	<b>495.5</b>	<b>448.3</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>972.2</b>	<b>787.2</b>	<b>677.9</b>	<b>628.2</b>	<b>606.9</b>	<b>583.9</b>	<b>553.3</b>
Circular Random	<b>816.6</b>	<b>660.5</b>	<b>577.9</b>	<b>530.8</b>	<b>502.0</b>	<b>482.5</b>	<b>454.3</b>
Coastal / Long Distance	<b>966.9</b>	<b>738.2</b>	<b>613.0</b>	<b>548.1</b>	<b>514.5</b>	<b>484.2</b>	<b>434.4</b>
Non Spinnaker	<b>895.5</b>	<b>715.7</b>	<b>617.9</b>	<b>560.4</b>	<b>524.6</b>	<b>500.8</b>	<b>469.2</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>43.1°</b>	<b>42.0°</b>	<b>40.5°</b>	<b>39.0°</b>	<b>39.0°</b>	<b>38.6°</b>	<b>38.3°</b>
Beat VMG	<b>3.51</b>	<b>4.28</b>	<b>4.88</b>	<b>5.18</b>	<b>5.30</b>	<b>5.35</b>	<b>5.47</b>
52°	<b>5.41</b>	<b>6.46</b>	<b>7.11</b>	<b>7.39</b>	<b>7.49</b>	<b>7.54</b>	<b>7.64</b>
60°	<b>5.76</b>	<b>6.77</b>	<b>7.30</b>	<b>7.57</b>	<b>7.71</b>	<b>7.79</b>	<b>7.87</b>
75°	<b>6.03</b>	<b>7.00</b>	<b>7.46</b>	<b>7.77</b>	<b>8.03</b>	<b>8.22</b>	<b>8.37</b>
90°	<b>6.04</b>	<b>7.16</b>	<b>7.57</b>	<b>7.81</b>	<b>8.14</b>	<b>8.48</b>	<b>8.98</b>
110°	<b>6.17</b>	<b>7.29</b>	<b>7.83</b>	<b>8.28</b>	<b>8.59</b>	<b>8.85</b>	<b>9.42</b>
120°	<b>6.03</b>	<b>7.20</b>	<b>7.77</b>	<b>8.30</b>	<b>8.86</b>	<b>9.29</b>	<b>10.00</b>
135°	<b>5.36</b>	<b>6.69</b>	<b>7.47</b>	<b>7.96</b>	<b>8.51</b>	<b>9.11</b>	<b>10.75</b>
150°	<b>4.52</b>	<b>5.67</b>	<b>6.72</b>	<b>7.40</b>	<b>7.74</b>	<b>8.12</b>	<b>9.18</b>
Run VMG	<b>3.92</b>	<b>4.91</b>	<b>5.82</b>	<b>6.41</b>	<b>6.73</b>	<b>7.26</b>	<b>8.03</b>
Gybe Angles	<b>144.0°</b>	<b>147.0°</b>	<b>148.5°</b>	<b>151.0°</b>	<b>152.0°</b>	<b>176.0°</b>	<b>177.0°</b>