



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

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **EST633**  
Issued On **28/05/2020**  
ORC Ref **03580000J2K**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 643kg  
Maximum **644kg**  
Minimum\* **483kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>660.3</b>	<b>0.9087</b>
Non Spin OSN	<b>639.7</b>	<b>0.9379</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes** **90.04**  
Asymmetric: **Yes** **71.46**  
Flying H/S: **No**  
Spin. Pole: **Yes**

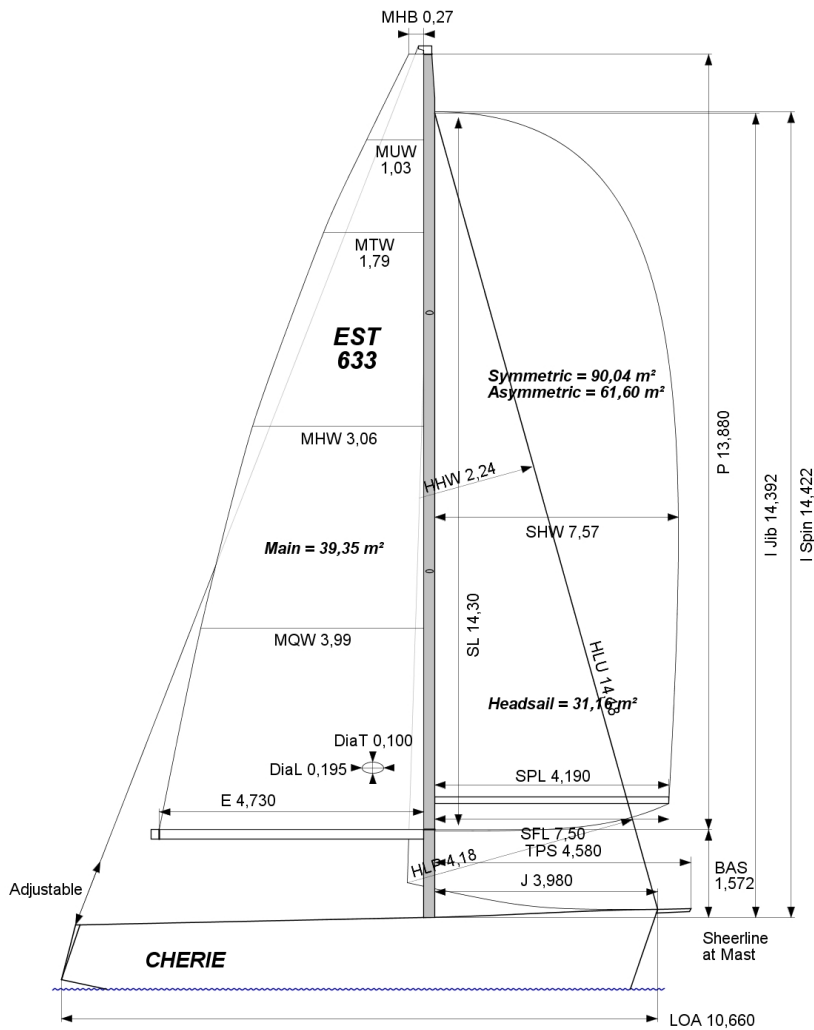
**Class Division Length**

**CDL = 9.103**

**Stability (Measured)**

Limit Positive Stab.: **121.2°**  
Stability Index: **121.1**

**Owner**



BOAT	GPH	HULL
Name <b>Cherie</b> Sail Nr <b>EST 633</b>	<b>623.7</b>	Data File <b>Est0633</b> LOA <b>10.660m</b> Offset File <b>F242.OFF</b> MB <b>3.636m</b> Displacement <b>5,612kg</b> Draft <b>2.200m</b>
<b>CLASS</b> Class <b>First 35</b> Designer <b>Farr</b> Builder <b>Beneteau</b> Series <b>08/2009</b> Age Date <b>04/2010</b> Age Allowance <b>0.357%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.190%</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>COMMENTS</b> Kaal 5612kg dekl. 27.05.20		IMSL <b>9.708m</b> VCGD <b>0.046m</b> Sink <b>19.30kg/mm</b> RL <b>8.521m</b> VCGM <b>0.046m</b> WS <b>26.10m²</b> LSM0 <b>9.536m</b> Displacement/Length ratio <b>6.4717</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.434</b> Type <b>Folding 2 blades</b> PIPA <b>0.0030</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>607.1</b>	<b>679.0</b>
Time on Time	<b>0.9882</b>	<b>0.9941</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>714.1 552.4 494.2</b>	<b>929.5 681.5 592.9</b>
Time on Time	<b>0.9452 1.2219 1.3659</b>	<b>0.7262 0.9904 1.1385</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>Cherie</b>
Certificate Number	<b>EST633</b>
Sail Nr	<b>EST 633</b>
Issued On	<b>28/05/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1063.1</b>	<b>878.7</b>	<b>773.2</b>	<b>723.4</b>	<b>707.7</b>	<b>702.5</b>	<b>691.7</b>
52°	<b>694.6</b>	<b>585.9</b>	<b>529.0</b>	<b>506.4</b>	<b>498.6</b>	<b>495.4</b>	<b>490.8</b>
60°	<b>656.1</b>	<b>558.6</b>	<b>513.7</b>	<b>494.1</b>	<b>485.0</b>	<b>481.3</b>	<b>478.1</b>
75°	<b>613.6</b>	<b>526.1</b>	<b>493.7</b>	<b>479.4</b>	<b>469.6</b>	<b>460.1</b>	<b>453.3</b>
90°	<b>591.9</b>	<b>512.1</b>	<b>481.9</b>	<b>462.0</b>	<b>446.6</b>	<b>437.3</b>	<b>425.8</b>
110°	<b>618.0</b>	<b>523.2</b>	<b>486.3</b>	<b>461.9</b>	<b>440.8</b>	<b>420.8</b>	<b>389.3</b>
120°	<b>653.4</b>	<b>538.2</b>	<b>491.3</b>	<b>465.3</b>	<b>441.0</b>	<b>418.5</b>	<b>381.6</b>
135°	<b>723.2</b>	<b>587.4</b>	<b>514.9</b>	<b>482.5</b>	<b>458.3</b>	<b>434.0</b>	<b>388.7</b>
150°	<b>857.7</b>	<b>680.7</b>	<b>575.2</b>	<b>513.4</b>	<b>483.4</b>	<b>460.7</b>	<b>416.4</b>
Run VMG	<b>990.4</b>	<b>786.0</b>	<b>663.7</b>	<b>584.5</b>	<b>529.9</b>	<b>493.8</b>	<b>449.0</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1026.7</b>	<b>832.4</b>	<b>718.5</b>	<b>654.0</b>	<b>618.8</b>	<b>598.1</b>	<b>570.3</b>
Circular Random	<b>857.6</b>	<b>693.0</b>	<b>605.1</b>	<b>554.5</b>	<b>523.6</b>	<b>503.3</b>	<b>476.8</b>
Coastal / Long Distance	<b>1023.1</b>	<b>780.4</b>	<b>647.3</b>	<b>571.8</b>	<b>533.5</b>	<b>504.5</b>	<b>455.8</b>
Non Spinnaker	<b>924.5</b>	<b>739.8</b>	<b>639.5</b>	<b>580.9</b>	<b>544.9</b>	<b>521.5</b>	<b>491.8</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>41.3°</b>	<b>40.5°</b>	<b>39.2°</b>	<b>38.6°</b>	<b>38.6°</b>	<b>39.0°</b>
Beat VMG	<b>3.39</b>	<b>4.10</b>	<b>4.66</b>	<b>4.98</b>	<b>5.09</b>	<b>5.12</b>	<b>5.20</b>
52°	<b>5.18</b>	<b>6.14</b>	<b>6.80</b>	<b>7.11</b>	<b>7.22</b>	<b>7.27</b>	<b>7.33</b>
60°	<b>5.49</b>	<b>6.44</b>	<b>7.01</b>	<b>7.29</b>	<b>7.42</b>	<b>7.48</b>	<b>7.53</b>
75°	<b>5.87</b>	<b>6.84</b>	<b>7.29</b>	<b>7.51</b>	<b>7.67</b>	<b>7.83</b>	<b>7.94</b>
90°	<b>6.08</b>	<b>7.03</b>	<b>7.47</b>	<b>7.79</b>	<b>8.06</b>	<b>8.23</b>	<b>8.45</b>
110°	<b>5.82</b>	<b>6.88</b>	<b>7.40</b>	<b>7.79</b>	<b>8.17</b>	<b>8.56</b>	<b>9.25</b>
120°	<b>5.51</b>	<b>6.69</b>	<b>7.33</b>	<b>7.74</b>	<b>8.16</b>	<b>8.60</b>	<b>9.43</b>
135°	<b>4.98</b>	<b>6.13</b>	<b>6.99</b>	<b>7.46</b>	<b>7.85</b>	<b>8.29</b>	<b>9.26</b>
150°	<b>4.20</b>	<b>5.29</b>	<b>6.26</b>	<b>7.01</b>	<b>7.45</b>	<b>7.81</b>	<b>8.65</b>
Run VMG	<b>3.63</b>	<b>4.58</b>	<b>5.42</b>	<b>6.16</b>	<b>6.79</b>	<b>7.29</b>	<b>8.02</b>
Gybe Angles	<b>145.0°</b>	<b>149.0°</b>	<b>151.0°</b>	<b>157.0°</b>	<b>175.0°</b>	<b>180.0°</b>	<b>180.0°</b>