

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **US6151**  
Issued On **18/09/2020**  
ORC Ref **03410000QMV**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 847kg  
Maximum **847kg**  
Minimum\* **635kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>616.9</b>	<b>0.9726</b>
Non Spin OSN	<b>599.6</b>	<b>1.0007</b>

**Sails Limitations**

Headsails **1** Spinnakers **4**

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 154.83**  
Flying H/S: **No**  
Spin. Pole: **No**

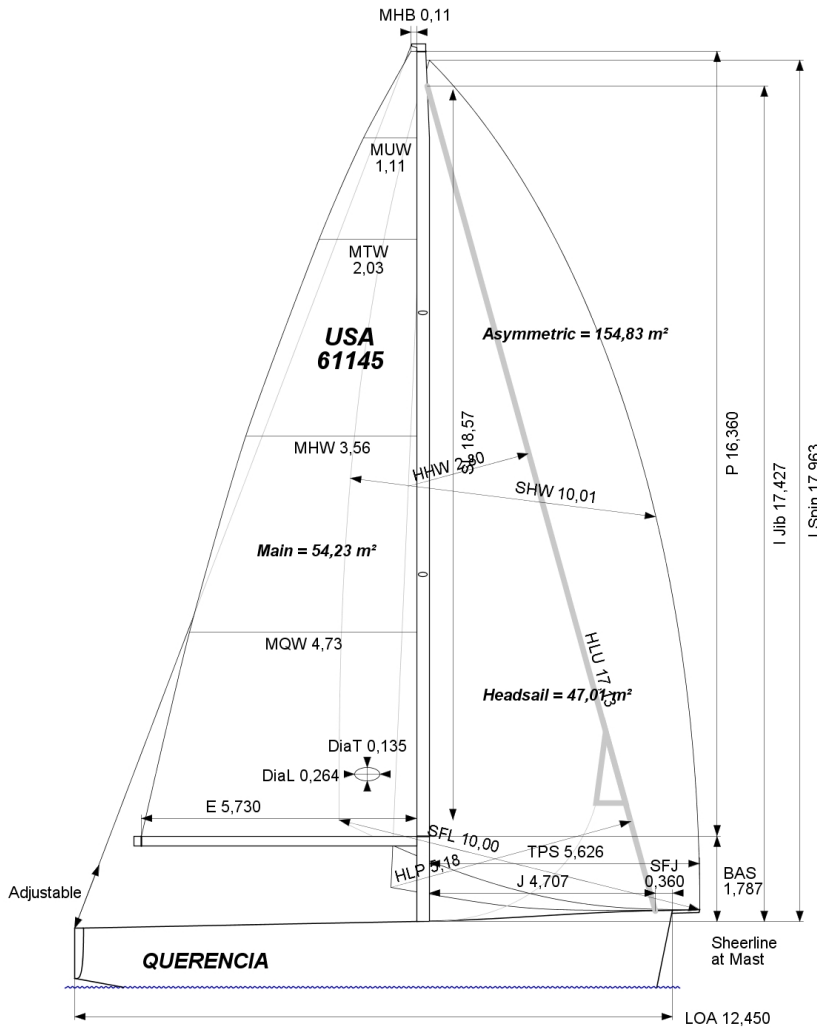
**Class Division Length**

**CDL = 10.737**

**Stability (Measured)**

Limit Positive Stab.: **112.8°**  
Stability Index: **118.1**

**Owner**



BOAT		GPH	HULL			
Name <b>Querencia</b> Sail Nr <b>USA 61145</b>		<b>577.4</b>	Data File <b>US6151</b>	LOA <b>12.450m</b>		
			Offset File <b>JCTX4DK.off</b>	MB <b>3.946m</b>		
			Displacement <b>9,328kg</b>	Draft <b>2.526m</b>		
<b>CLASS</b>			IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.182%</b>		
Class <b>X4^3</b>			Plan Review	Construction <b>Cored</b>		
Designer <b>Jeppeson</b>			Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
Builder <b>X- Yachts</b>			Crew Arm Ex	Carbon Rudder <b>No</b>		
Series <b>02/2016</b>				Light Stanchions <b>No</b>		
Age Date <b>08/2018</b>			IMSL <b>11.687m</b>	VCGD <b>0.219m</b>	Sink <b>26.50kg/mm</b>	
Age Allowance <b>0.130%</b>			RL <b>9.803m</b>	VCGM <b>0.195m</b>	WS <b>35.48m<sup>2</sup></b>	
<b>COMMENTS</b>			LSM0 <b>11.561m</b>	Displacement/Length ratio <b>6.0367</b>		
			Water Ballast <b>0</b>	Trim Tab <b>No</b>		
			BLR Index <b>0.0000</b>			
<b>PROPELLER</b>			<b>CENTERBOARD</b>			
Installation <b>Strut</b>	PRD <b>0.455</b>		<b>NA</b>			
Type <b>Folding 2 blades</b>	PBW <b>0.117</b>					
	PIPA <b>0.0039</b>					
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>563.3</b>			<b>635.3</b>		
Time on Time	<b>1.0651</b>			<b>1.0624</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>658.4</b>	<b>511.5</b>	<b>461.4</b>	<b>859.1</b>	<b>636.9</b>	<b>560.2</b>
Time on Time	<b>1.0252</b>	<b>1.3196</b>	<b>1.4629</b>	<b>0.7857</b>	<b>1.0598</b>	<b>1.2050</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>Querencia</b>	Certificate Number	<b>US6151</b>
Sail Nr	<b>USA 61145</b>	Issued On	<b>18/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>988.0</b>	<b>814.1</b>	<b>719.5</b>	<b>674.4</b>	<b>657.3</b>	<b>650.3</b>	<b>634.0</b>
52°	<b>644.4</b>	<b>542.0</b>	<b>487.6</b>	<b>466.7</b>	<b>459.8</b>	<b>456.5</b>	<b>450.7</b>
60°	<b>607.6</b>	<b>515.6</b>	<b>471.8</b>	<b>454.2</b>	<b>447.1</b>	<b>443.7</b>	<b>439.6</b>
75°	<b>567.0</b>	<b>484.3</b>	<b>455.4</b>	<b>443.5</b>	<b>432.4</b>	<b>425.8</b>	<b>420.5</b>
90°	<b>546.6</b>	<b>471.0</b>	<b>443.2</b>	<b>427.8</b>	<b>418.2</b>	<b>410.4</b>	<b>396.9</b>
110°	<b>565.0</b>	<b>478.9</b>	<b>444.7</b>	<b>424.7</b>	<b>405.8</b>	<b>388.8</b>	<b>365.5</b>
120°	<b>593.1</b>	<b>490.1</b>	<b>448.8</b>	<b>425.9</b>	<b>404.6</b>	<b>386.9</b>	<b>359.8</b>
135°	<b>663.6</b>	<b>535.5</b>	<b>469.2</b>	<b>440.6</b>	<b>419.1</b>	<b>396.9</b>	<b>354.9</b>
150°	<b>787.1</b>	<b>628.1</b>	<b>530.7</b>	<b>474.9</b>	<b>450.5</b>	<b>433.2</b>	<b>399.2</b>
Run VMG	<b>908.9</b>	<b>725.3</b>	<b>612.8</b>	<b>548.3</b>	<b>518.2</b>	<b>483.3</b>	<b>436.2</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>948.4</b>	<b>769.7</b>	<b>666.1</b>	<b>611.4</b>	<b>587.7</b>	<b>566.8</b>	<b>535.1</b>
Circular Random	<b>791.5</b>	<b>640.2</b>	<b>560.0</b>	<b>514.5</b>	<b>487.1</b>	<b>469.2</b>	<b>445.0</b>
Coastal / Long Distance	<b>944.5</b>	<b>721.0</b>	<b>598.7</b>	<b>530.6</b>	<b>498.0</b>	<b>471.0</b>	<b>426.2</b>
Non Spinnaker	<b>865.7</b>	<b>692.0</b>	<b>597.4</b>	<b>541.7</b>	<b>507.4</b>	<b>485.0</b>	<b>457.0</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>43.1°</b>	<b>41.3°</b>	<b>40.5°</b>	<b>39.8°</b>	<b>39.2°</b>	<b>39.0°</b>	<b>38.4°</b>
Beat VMG	<b>3.64</b>	<b>4.42</b>	<b>5.00</b>	<b>5.34</b>	<b>5.48</b>	<b>5.54</b>	<b>5.68</b>
52°	<b>5.59</b>	<b>6.64</b>	<b>7.38</b>	<b>7.71</b>	<b>7.83</b>	<b>7.89</b>	<b>7.99</b>
60°	<b>5.92</b>	<b>6.98</b>	<b>7.63</b>	<b>7.93</b>	<b>8.05</b>	<b>8.11</b>	<b>8.19</b>
75°	<b>6.35</b>	<b>7.43</b>	<b>7.90</b>	<b>8.12</b>	<b>8.33</b>	<b>8.45</b>	<b>8.56</b>
90°	<b>6.59</b>	<b>7.64</b>	<b>8.12</b>	<b>8.42</b>	<b>8.61</b>	<b>8.77</b>	<b>9.07</b>
110°	<b>6.37</b>	<b>7.52</b>	<b>8.10</b>	<b>8.48</b>	<b>8.87</b>	<b>9.26</b>	<b>9.85</b>
120°	<b>6.07</b>	<b>7.35</b>	<b>8.02</b>	<b>8.45</b>	<b>8.90</b>	<b>9.31</b>	<b>10.01</b>
135°	<b>5.42</b>	<b>6.72</b>	<b>7.67</b>	<b>8.17</b>	<b>8.59</b>	<b>9.07</b>	<b>10.14</b>
150°	<b>4.57</b>	<b>5.73</b>	<b>6.78</b>	<b>7.58</b>	<b>7.99</b>	<b>8.31</b>	<b>9.02</b>
Run VMG	<b>3.96</b>	<b>4.96</b>	<b>5.87</b>	<b>6.57</b>	<b>6.95</b>	<b>7.45</b>	<b>8.25</b>
Gybe Angles	<b>143.0°</b>	<b>147.0°</b>	<b>147.5°</b>	<b>150.0°</b>	<b>151.5°</b>	<b>175.5°</b>	<b>178.0°</b>