



**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **US6436**  
 Issued On **04/08/2020**  
 ORC Ref **03410000NV9**  
 VPP Ver. **2020 1.02**  
 Valid until **31/12/2020**

**Crew Weight**

Default **1,337kg**  
 Maximum **1,337kg**  
 Minimum\* **1,003kg**  
*\*when applied by the NoR and SI*  
 Non Manual Pwr **Sheets**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>497.7</b>	<b>1.2055</b>
Non Spin OSN	<b>486.9</b>	<b>1.2323</b>

**Sails Limitations**

Headsails **7** Spinnakers **5**

**Asymmetric on centerline**

**Spinnaker configuration**  
 Symmetric: **No**  
 Asymmetric: **Yes 252.55**  
 Flying H/S: **No**  
 Spin. Pole: **No**

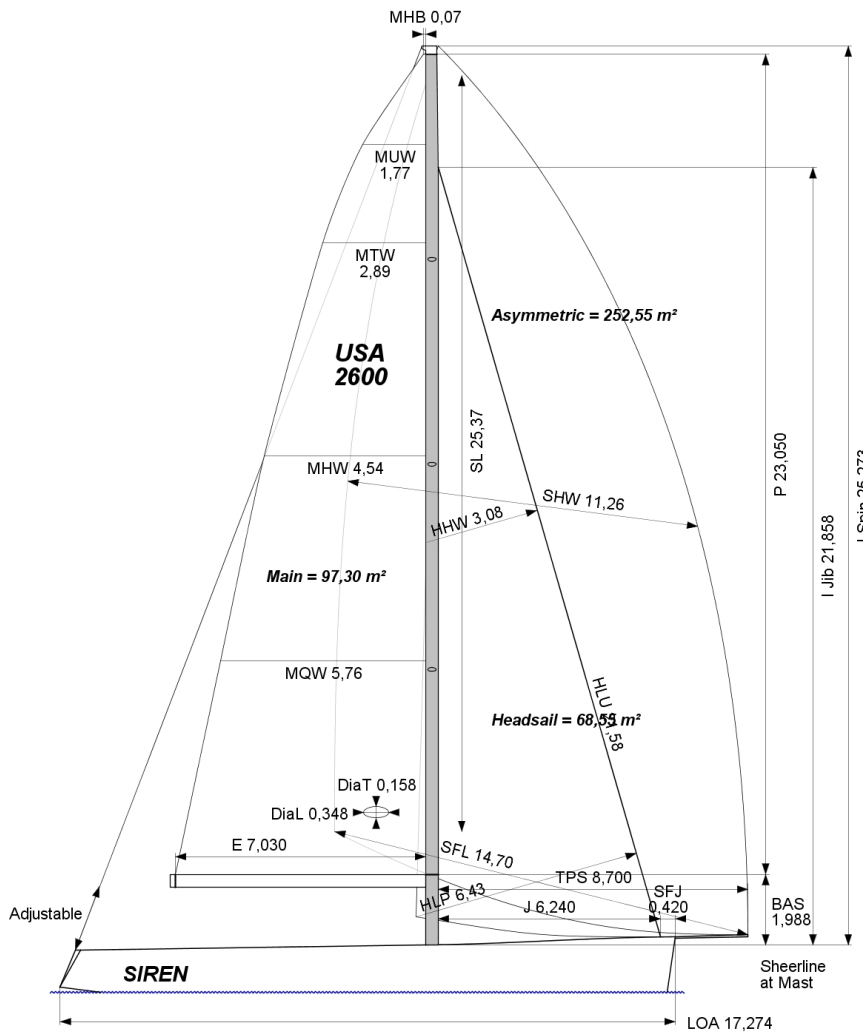
**Class Division Length**

**CDL = 16.005**

**Stability (Measured)**

Limit Positive Stab.: **149.6°**  
 Stability Index: **157.5**

**Owner**



BOAT	GPH	HULL
Name <b>SIREN</b> Sail Nr <b>USA 2600</b>	<b>453.8</b>	Data File <b>US6436</b> LOA <b>17.274m</b> Offset File <b>G5700_V.OFF</b> MB <b>4.352m</b> Displacement <b>12,113kg</b> Draft <b>3.874m</b>
<b>CLASS</b> Class <b>REICHEL PUGH 57</b> Designer <b>REICHEL PUGH</b> Builder <b>MCCONAGHY</b> Series <b>02/2000</b> Age Date <b>02/2002</b> Age Allowance <b>0.487%</b>	IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.008%</b> Plan Review Construction <b>Carbon</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>Yes</b> Light Stanchions	IMS L <b>16.144m</b> VCGD <b>-1.065m</b> Sink <b>35.40kg/mm</b> RL <b>15.869m</b> VCGM <b>-1.094m</b> WS <b>48.30m²</b> LSMO <b>15.924m</b> Displacement/Length ratio <b>2.9998</b>
<b>COMMENTS</b>	Water Ballast <b>0</b> Trim Tab BLR Index <b>0.0000</b>	<b>CENTERBOARD</b>  <b>N/A</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.419</b> Type <b>Folding 2 blades</b> PBW <b>0.110</b> PIPA <b>0.0039</b>		
<b>SCORING OPTIONS</b>		
	<b>COASTAL / LONG DISTANCE</b>	<b>WINDWARD / LEEWARD</b>
Time on Distance	<b>443.5</b>	<b>504.1</b>
Time on Time	<b>1.3529</b>	<b>1.3390</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>515.9 404.5 353.4</b>	<b>677.6 506.6 438.8</b>
Time on Time	<b>1.3083 1.6688 1.9098</b>	<b>0.9962 1.3325 1.5384</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>SIREN</b>	Certificate Number	<b>US6436</b>
Sail Nr	<b>USA 2600</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>768.7</b>	<b>627.5</b>	<b>557.8</b>	<b>530.1</b>	<b>516.2</b>	<b>508.3</b>	<b>491.4</b>
52°	<b>503.2</b>	<b>417.8</b>	<b>386.9</b>	<b>375.2</b>	<b>368.8</b>	<b>364.6</b>	<b>354.5</b>
60°	<b>473.6</b>	<b>401.0</b>	<b>376.5</b>	<b>363.2</b>	<b>354.9</b>	<b>349.1</b>	<b>339.5</b>
75°	<b>435.1</b>	<b>385.3</b>	<b>367.4</b>	<b>348.2</b>	<b>332.5</b>	<b>323.4</b>	<b>313.4</b>
90°	<b>418.6</b>	<b>377.2</b>	<b>353.9</b>	<b>337.2</b>	<b>324.2</b>	<b>307.9</b>	<b>287.3</b>
110°	<b>427.5</b>	<b>376.6</b>	<b>348.8</b>	<b>323.9</b>	<b>303.1</b>	<b>286.5</b>	<b>262.8</b>
120°	<b>449.5</b>	<b>384.9</b>	<b>355.9</b>	<b>326.7</b>	<b>300.9</b>	<b>281.8</b>	<b>247.2</b>
135°	<b>521.5</b>	<b>422.1</b>	<b>378.6</b>	<b>353.3</b>	<b>325.2</b>	<b>296.3</b>	<b>244.7</b>
150°	<b>633.5</b>	<b>504.6</b>	<b>433.5</b>	<b>386.5</b>	<b>362.0</b>	<b>338.2</b>	<b>283.1</b>
Run VMG	<b>731.5</b>	<b>582.6</b>	<b>500.5</b>	<b>447.7</b>	<b>418.2</b>	<b>390.5</b>	<b>326.9</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>750.1</b>	<b>605.1</b>	<b>529.1</b>	<b>488.9</b>	<b>467.2</b>	<b>449.4</b>	<b>409.2</b>
Circular Random	<b>621.7</b>	<b>504.0</b>	<b>441.0</b>	<b>403.7</b>	<b>379.1</b>	<b>360.8</b>	<b>331.5</b>
Coastal / Long Distance	<b>748.3</b>	<b>567.4</b>	<b>476.0</b>	<b>421.3</b>	<b>390.9</b>	<b>363.8</b>	<b>314.3</b>
Non Spinnaker	<b>701.3</b>	<b>560.0</b>	<b>482.4</b>	<b>435.4</b>	<b>404.7</b>	<b>382.7</b>	<b>351.6</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>39.8°</b>	<b>38.3°</b>	<b>37.5°</b>	<b>36.8°</b>	<b>36.0°</b>
Beat VMG	<b>4.68</b>	<b>5.74</b>	<b>6.45</b>	<b>6.79</b>	<b>6.97</b>	<b>7.08</b>	<b>7.33</b>
52°	<b>7.15</b>	<b>8.62</b>	<b>9.30</b>	<b>9.60</b>	<b>9.76</b>	<b>9.87</b>	<b>10.16</b>
60°	<b>7.60</b>	<b>8.98</b>	<b>9.56</b>	<b>9.91</b>	<b>10.14</b>	<b>10.31</b>	<b>10.60</b>
75°	<b>8.27</b>	<b>9.34</b>	<b>9.80</b>	<b>10.34</b>	<b>10.83</b>	<b>11.13</b>	<b>11.49</b>
90°	<b>8.60</b>	<b>9.54</b>	<b>10.17</b>	<b>10.68</b>	<b>11.11</b>	<b>11.69</b>	<b>12.53</b>
110°	<b>8.42</b>	<b>9.56</b>	<b>10.32</b>	<b>11.11</b>	<b>11.88</b>	<b>12.57</b>	<b>13.70</b>
120°	<b>8.01</b>	<b>9.35</b>	<b>10.12</b>	<b>11.02</b>	<b>11.96</b>	<b>12.77</b>	<b>14.56</b>
135°	<b>6.90</b>	<b>8.53</b>	<b>9.51</b>	<b>10.19</b>	<b>11.07</b>	<b>12.15</b>	<b>14.71</b>
150°	<b>5.68</b>	<b>7.14</b>	<b>8.31</b>	<b>9.31</b>	<b>9.94</b>	<b>10.64</b>	<b>12.72</b>
Run VMG	<b>4.92</b>	<b>6.18</b>	<b>7.19</b>	<b>8.04</b>	<b>8.61</b>	<b>9.22</b>	<b>11.01</b>
Gybe Angles	<b>138.8°</b>	<b>140.0°</b>	<b>146.3°</b>	<b>152.0°</b>	<b>152.3°</b>	<b>149.0°</b>	<b>144.5°</b>