



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

**2020**  
**ORC Club**  
**Certificate**

**Rating Office**

**Offshore**  
**Racing**  
**Congress**



**Certificate**

Number **US6719**  
Issued On **15/09/2020**  
ORC Ref **03410000QE2**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 641kg  
Maximum **641kg**  
Minimum\* **481kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>642.6</b>	<b>0.9337</b>
Non Spin OSN	<b>626.0</b>	<b>0.9584</b>

**Sails Limitations**

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

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 120.89**  
Flying H/S: **No**  
Spin. Pole: **No**

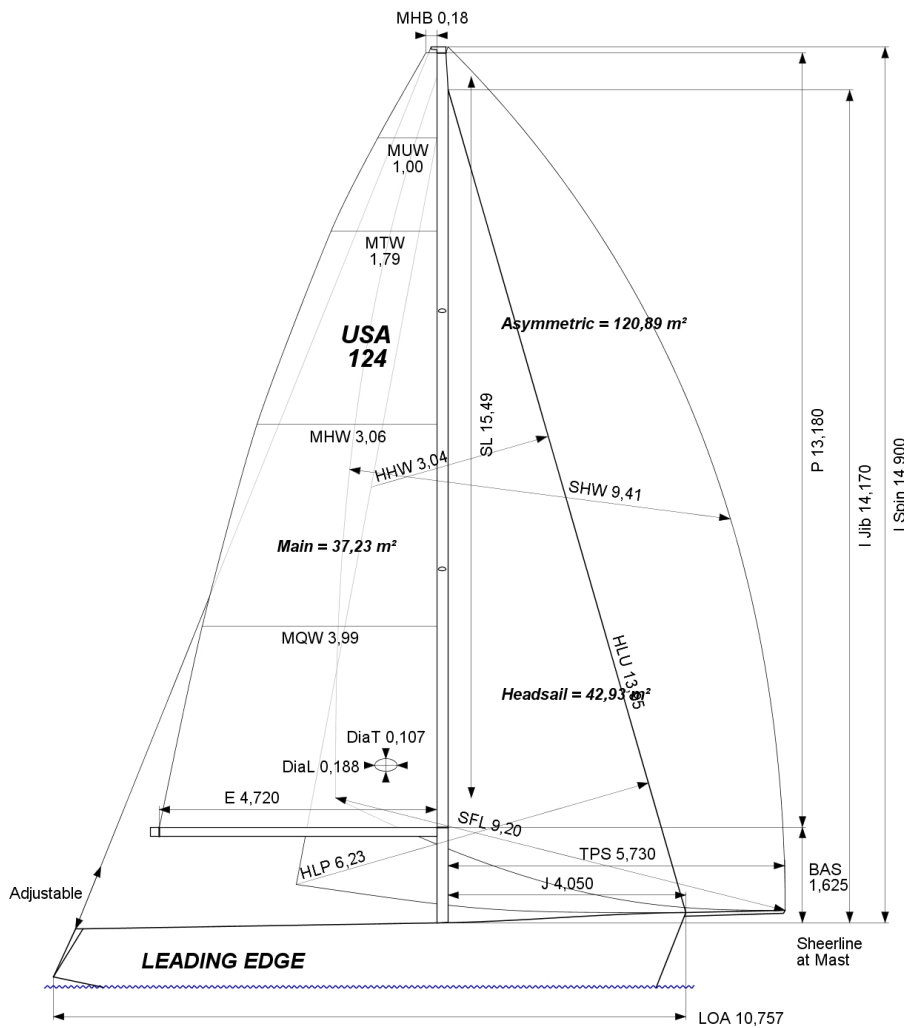
**Class Division Length**

**CDL = 9.340**

**Stability (Measured)**

Limit Positive Stab.: **116.5°**  
Stability Index: **116.5**

**Owner**



BOAT		GPH	HULL			
Name	<b>LEADING EDGE</b>	<b>606.8</b>	Data File	<b>US6719</b>	LOA	<b>10.757m</b>
Sail Nr	<b>USA-124</b>		Offset File	<b>F199.OFF</b>	MB	<b>3.524m</b>
CLASS			Displacement	<b>5,212kg</b>	Draft	<b>2.140m</b>
Class	<b>J109 (DK)</b>		IMS Division	<b>Cruiser/Racer</b>	Dynamic All.	<b>0.004%</b>
Designer	<b>R. Alan Johnstone</b>		Plan Review		Construction	<b>Cored</b>
Builder	<b>Pearson Composites</b>		Fiber Rigging	<b>No</b>	Aramid Core	<b>No</b>
Series	<b>09/2001</b>		Crew Arm Ex	<b>0.00</b>	Carbon Rudder	<b>No</b>
Age Date	<b>03/2002</b>				Light Stanchions	<b>No</b>
Age Allowance	<b>0.487%</b>		IMSL	<b>9.678m</b>	VCGD	<b>0.040m</b>
COMMENTS			RL	<b>9.010m</b>	VCGM	<b>0.002m</b>
			WS	<b>25.00m²</b>	Displacement/Length ratio	<b>6.0560</b>
			LSM0	<b>9.512m</b>	Water Ballast	<b>0</b>
					Trim Tab	<b>No</b>
					BLR Index	<b>0.0000</b>
PROPELLER			CENTERBOARD			
Installation	<b>Strut</b>	PRD	<b>NA</b>			
Type	<b>Folding 2 blades</b>	PBW				
		PIPA				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>592.8</b>			<b>664.8</b>		
Time on Time	<b>1.0121</b>			<b>1.0154</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>682.9</b>	<b>540.6</b>	<b>490.9</b>	<b>884.7</b>	<b>666.1</b>	<b>593.6</b>
Time on Time	<b>0.9885</b>	<b>1.2485</b>	<b>1.3749</b>	<b>0.7630</b>	<b>1.0134</b>	<b>1.1371</b>

# 2020

## ORC Club Certificate Appendix

BOAT							
Name	<b>LEADING EDGE</b>			Certificate Number	<b>US6719</b>		
Sail Nr	<b>USA-124</b>			Issued On	<b>15/09/2020</b>		

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1000.4</b>	<b>830.0</b>	<b>738.1</b>	<b>703.5</b>	<b>689.0</b>	<b>681.6</b>	<b>678.2</b>
52°	<b>658.2</b>	<b>556.7</b>	<b>514.5</b>	<b>500.2</b>	<b>494.4</b>	<b>491.5</b>	<b>489.7</b>
60°	<b>622.9</b>	<b>536.1</b>	<b>502.8</b>	<b>488.6</b>	<b>482.2</b>	<b>478.6</b>	<b>476.3</b>
75°	<b>595.4</b>	<b>517.4</b>	<b>492.8</b>	<b>477.0</b>	<b>464.9</b>	<b>457.7</b>	<b>451.0</b>
90°	<b>572.7</b>	<b>504.1</b>	<b>477.7</b>	<b>460.6</b>	<b>448.5</b>	<b>439.5</b>	<b>424.3</b>
110°	<b>589.8</b>	<b>509.7</b>	<b>478.4</b>	<b>453.9</b>	<b>431.4</b>	<b>413.1</b>	<b>389.2</b>
120°	<b>620.5</b>	<b>519.2</b>	<b>481.7</b>	<b>454.6</b>	<b>429.7</b>	<b>410.9</b>	<b>379.0</b>
135°	<b>696.7</b>	<b>560.3</b>	<b>500.1</b>	<b>471.5</b>	<b>444.4</b>	<b>418.3</b>	<b>367.7</b>
150°	<b>821.8</b>	<b>657.5</b>	<b>555.8</b>	<b>505.4</b>	<b>482.9</b>	<b>464.3</b>	<b>420.2</b>
Run VMG	<b>948.9</b>	<b>759.2</b>	<b>641.8</b>	<b>583.2</b>	<b>554.4</b>	<b>511.4</b>	<b>465.9</b>
Selected Courses							
Windward / Leeward	<b>974.7</b>	<b>794.6</b>	<b>689.9</b>	<b>643.3</b>	<b>621.7</b>	<b>596.5</b>	<b>572.0</b>
Circular Random	<b>823.5</b>	<b>669.8</b>	<b>589.2</b>	<b>543.9</b>	<b>516.7</b>	<b>498.8</b>	<b>475.1</b>
Coastal / Long Distance	<b>972.1</b>	<b>746.5</b>	<b>624.7</b>	<b>561.9</b>	<b>529.6</b>	<b>500.9</b>	<b>455.1</b>
Non Spinnaker	<b>889.5</b>	<b>716.2</b>	<b>623.0</b>	<b>568.9</b>	<b>535.8</b>	<b>514.4</b>	<b>488.1</b>

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>42.4°</b>	<b>41.3°</b>	<b>39.8°</b>	<b>38.3°</b>	<b>37.5°</b>	<b>37.5°</b>	<b>37.9°</b>
Beat VMG	<b>3.60</b>	<b>4.34</b>	<b>4.88</b>	<b>5.12</b>	<b>5.22</b>	<b>5.28</b>	<b>5.31</b>
52°	<b>5.47</b>	<b>6.47</b>	<b>7.00</b>	<b>7.20</b>	<b>7.28</b>	<b>7.32</b>	<b>7.35</b>
60°	<b>5.78</b>	<b>6.71</b>	<b>7.16</b>	<b>7.37</b>	<b>7.47</b>	<b>7.52</b>	<b>7.56</b>
75°	<b>6.05</b>	<b>6.96</b>	<b>7.31</b>	<b>7.55</b>	<b>7.74</b>	<b>7.87</b>	<b>7.98</b>
90°	<b>6.29</b>	<b>7.14</b>	<b>7.54</b>	<b>7.82</b>	<b>8.03</b>	<b>8.19</b>	<b>8.48</b>
110°	<b>6.10</b>	<b>7.06</b>	<b>7.53</b>	<b>7.93</b>	<b>8.35</b>	<b>8.72</b>	<b>9.25</b>
120°	<b>5.80</b>	<b>6.93</b>	<b>7.47</b>	<b>7.92</b>	<b>8.38</b>	<b>8.76</b>	<b>9.50</b>
135°	<b>5.17</b>	<b>6.43</b>	<b>7.20</b>	<b>7.64</b>	<b>8.10</b>	<b>8.61</b>	<b>9.79</b>
150°	<b>4.38</b>	<b>5.48</b>	<b>6.48</b>	<b>7.12</b>	<b>7.46</b>	<b>7.75</b>	<b>8.57</b>
Run VMG	<b>3.79</b>	<b>4.74</b>	<b>5.61</b>	<b>6.17</b>	<b>6.49</b>	<b>7.04</b>	<b>7.73</b>
Gybe Angles	<b>144.3°</b>	<b>148.0°</b>	<b>148.0°</b>	<b>150.5°</b>	<b>174.0°</b>	<b>177.0°</b>	<b>178.0°</b>