



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **US6348**  
Issued On **11/01/2021**  
ORC Ref **03410000TLQ**  
VPP Ver. **2020 1.02**  
Valid until **31/01/2021**

**Crew Weight**

Default 508kg  
Maximum **725kg**  
Minimum\* **544kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>658.1</b>	<b>0.9117</b>
Non Spin OSN	<b>639.7</b>	<b>0.9379</b>

**Sails Limitations**

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

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 91.94**  
Flying H/S: **No**  
Spin. Pole: **No**

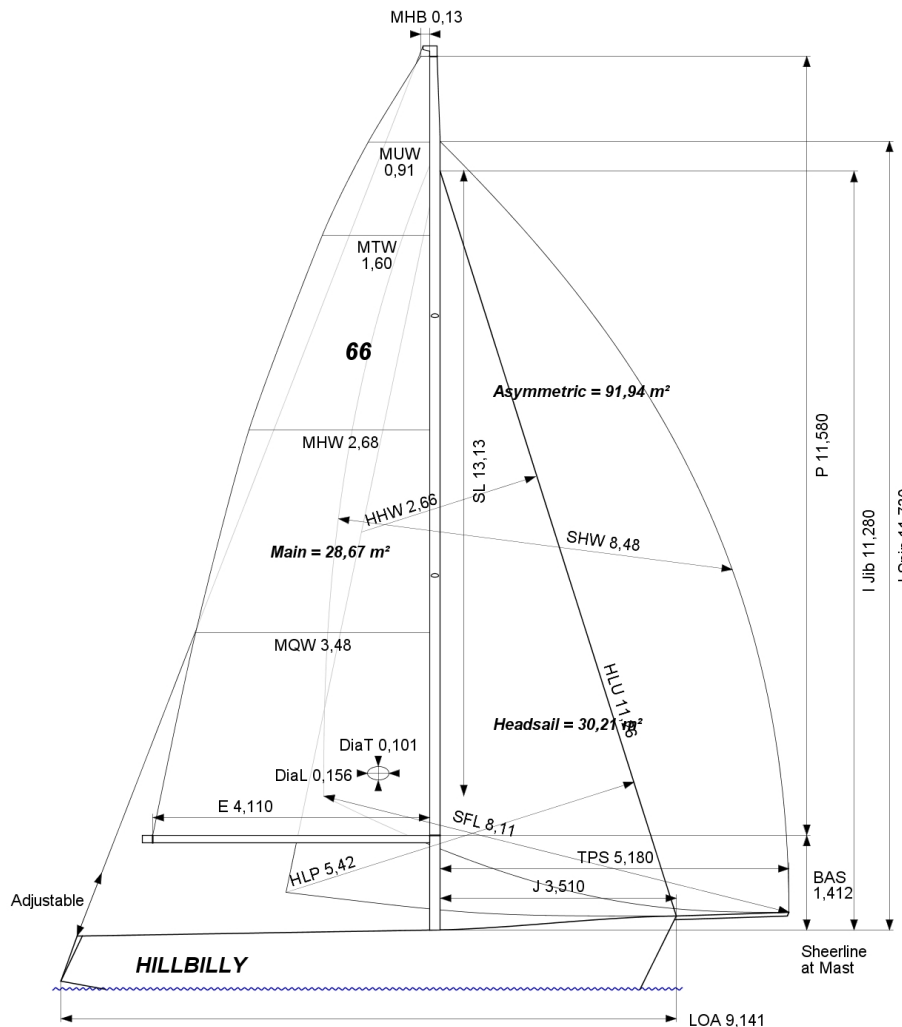
**Class Division Length**

**CDL = 8.471**

**Stability (Estimated)**

Limit Positive Stab.: **114.5°**  
Stability Index: **109.3**

**Owner**



BOAT		GPH		HULL			
Name <b>HILLBILLY</b> Sail Nr <b>66</b>		<b>621.7</b>		Data File <b>US6348</b>	LOA <b>9.141m</b>		
				Offset File <b>H194.OFF</b>	MB <b>3.042m</b>		
				Displacement <b>2,625kg</b>	Draft <b>1.816m</b>		
				IMS Division <b>Performance</b>	Dynamic All. <b>0.000%</b>		
				Plan Review	Construction <b>Cored</b>		
				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
				Crew Arm Ex <b>0.00</b>	Carbon Rudder <b>No</b>		
				Light Stanchions			
				IMSL <b>8.249m</b>	VCGD <b>-0.085m</b>	Sink <b>12.95kg/mm</b>	
				RL <b>8.700m</b>	VCGM <b>-0.083m</b>	WS <b>16.84m²</b>	
				LSM0 <b>8.081m</b> Displacement/Length ratio <b>4.9743</b>			
				Water Ballast <b>0</b> Trim Tab <b>No</b>			
				BLR Index <b>0.0000</b>			
<b>COMMENTS</b>				<b>CENTERBOARD</b>			
				<b>N/A</b>			
<b>PROPELLER</b>							
Installation	<b>Shaft exposed</b>	PRD	<b>0.305</b>				
Type	<b>Folding 2 blades</b>	PBW	<b>0.086</b>				
		PIPA	<b>0.0032</b>				
<b>SCORING OPTIONS</b>							
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>			
Time on Distance	<b>606.5</b>			<b>682.4</b>			
Time on Time	<b>0.9893</b>			<b>0.9892</b>			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	<b>699.6</b>	<b>555.5</b>	<b>494.8</b>	<b>902.9</b>	<b>682.4</b>	<b>605.1</b>	
Time on Time	<b>0.9649</b>	<b>1.2152</b>	<b>1.3641</b>	<b>0.7476</b>	<b>0.9891</b>	<b>1.1155</b>	

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>HILLBILLY</b>	Certificate Number <b>US6348</b>
Sail Nr <b>66</b>	Issued On <b>11/01/2021</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1017.6</b>	<b>843.5</b>	<b>748.9</b>	<b>715.9</b>	<b>702.4</b>	<b>695.8</b>	<b>693.6</b>
52°	<b>669.2</b>	<b>572.3</b>	<b>537.3</b>	<b>522.2</b>	<b>515.1</b>	<b>510.9</b>	<b>508.3</b>
60°	<b>632.9</b>	<b>555.2</b>	<b>526.4</b>	<b>508.5</b>	<b>498.7</b>	<b>492.8</b>	<b>488.3</b>
75°	<b>606.6</b>	<b>539.7</b>	<b>511.7</b>	<b>492.6</b>	<b>473.9</b>	<b>463.7</b>	<b>454.2</b>
90°	<b>587.2</b>	<b>528.0</b>	<b>495.0</b>	<b>467.4</b>	<b>450.5</b>	<b>438.6</b>	<b>421.1</b>
110°	<b>608.0</b>	<b>531.7</b>	<b>492.9</b>	<b>459.6</b>	<b>432.9</b>	<b>404.9</b>	<b>364.2</b>
120°	<b>630.6</b>	<b>538.9</b>	<b>498.7</b>	<b>460.4</b>	<b>426.2</b>	<b>397.6</b>	<b>346.0</b>
135°	<b>713.0</b>	<b>576.1</b>	<b>522.2</b>	<b>486.0</b>	<b>450.1</b>	<b>414.5</b>	<b>336.8</b>
150°	<b>842.3</b>	<b>673.9</b>	<b>574.4</b>	<b>528.8</b>	<b>502.6</b>	<b>475.4</b>	<b>398.8</b>
Run VMG	<b>972.6</b>	<b>778.1</b>	<b>663.3</b>	<b>608.9</b>	<b>567.2</b>	<b>531.1</b>	<b>460.5</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>995.1</b>	<b>810.8</b>	<b>706.1</b>	<b>662.4</b>	<b>634.8</b>	<b>613.4</b>	<b>577.0</b>
Circular Random	<b>843.3</b>	<b>686.9</b>	<b>604.3</b>	<b>556.4</b>	<b>525.9</b>	<b>504.0</b>	<b>470.0</b>
Coastal / Long Distance	<b>992.8</b>	<b>763.4</b>	<b>641.6</b>	<b>577.5</b>	<b>540.1</b>	<b>507.4</b>	<b>448.1</b>
Non Spinnaker	<b>908.2</b>	<b>732.8</b>	<b>638.5</b>	<b>583.4</b>	<b>548.9</b>	<b>525.5</b>	<b>493.8</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>42.0°</b>	<b>41.3°</b>	<b>38.3°</b>	<b>36.8°</b>	<b>36.0°</b>	<b>35.6°</b>	<b>35.6°</b>
Beat VMG	<b>3.54</b>	<b>4.27</b>	<b>4.81</b>	<b>5.03</b>	<b>5.12</b>	<b>5.17</b>	<b>5.19</b>
52°	<b>5.38</b>	<b>6.29</b>	<b>6.70</b>	<b>6.89</b>	<b>6.99</b>	<b>7.05</b>	<b>7.08</b>
60°	<b>5.69</b>	<b>6.48</b>	<b>6.84</b>	<b>7.08</b>	<b>7.22</b>	<b>7.31</b>	<b>7.37</b>
75°	<b>5.93</b>	<b>6.67</b>	<b>7.04</b>	<b>7.31</b>	<b>7.60</b>	<b>7.76</b>	<b>7.93</b>
90°	<b>6.13</b>	<b>6.82</b>	<b>7.27</b>	<b>7.70</b>	<b>7.99</b>	<b>8.21</b>	<b>8.55</b>
110°	<b>5.92</b>	<b>6.77</b>	<b>7.30</b>	<b>7.83</b>	<b>8.32</b>	<b>8.89</b>	<b>9.88</b>
120°	<b>5.71</b>	<b>6.68</b>	<b>7.22</b>	<b>7.82</b>	<b>8.45</b>	<b>9.05</b>	<b>10.40</b>
135°	<b>5.05</b>	<b>6.25</b>	<b>6.89</b>	<b>7.41</b>	<b>8.00</b>	<b>8.69</b>	<b>10.69</b>
150°	<b>4.27</b>	<b>5.34</b>	<b>6.27</b>	<b>6.81</b>	<b>7.16</b>	<b>7.57</b>	<b>9.03</b>
Run VMG	<b>3.70</b>	<b>4.63</b>	<b>5.43</b>	<b>5.91</b>	<b>6.35</b>	<b>6.78</b>	<b>7.82</b>
Gybe Angles	<b>144.5°</b>	<b>148.0°</b>	<b>149.0°</b>	<b>151.5°</b>	<b>176.0°</b>	<b>177.5°</b>	<b>139.5°</b>