



**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **US6731**  
 Issued On **10/11/2020**  
 ORC Ref **03410000SQP**  
 VPP Ver. **2020 1.02**  
 Valid until **31/12/2020**

**Crew Weight**

Default 802kg  
 Maximum **850kg**  
 Minimum\* **638kg**  
 \*when applied by the NoR and SI  
 Non Manual Pwr

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>574.0</b>	<b>1.0453</b>
Non Spin OSN	<b>560.6</b>	<b>1.0704</b>

**Sails Limitations**

Headsails **6** Spinnakers **4**

**Asymmetric on centerline**

**Spinnaker configuration**  
 Symmetric: **Yes 158.85**  
 Asymmetric: **Yes 158.71**  
 Flying H/S: **No**  
 Spin. Pole: **Yes**

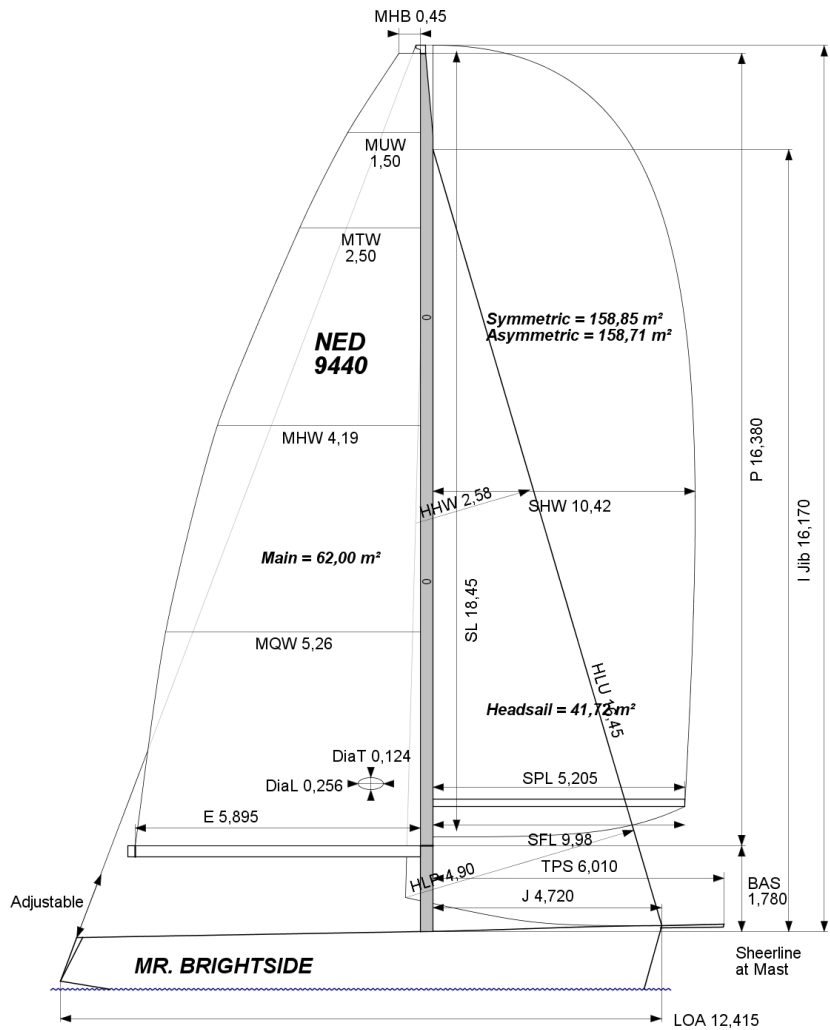
**Class Division Length**

**CDL = 11.046**

**Stability (Measured)**

Limit Positive Stab.: **129.3°**  
 Stability Index: **126.3**

**Owner**



BOAT	GPH	HULL
Name <b>mr. Brightside</b> Sail Nr <b>NED 9440</b>	<b>535.4</b>	Data File <b>US6731</b> LOA <b>12.415m</b> Offset File <b>I1805.off</b> MB <b>3.956m</b> Displacement <b>5,546kg</b> Draft <b>2.359m</b>
<b>CLASS</b> Class <b>Farr 40</b> Designer <b>Farr</b> Builder <b>US Watercraft</b> Series <b>05/1997</b> Age Date <b>06/2018</b> Age Allowance <b>0.487%</b>		IMS Division <b>Performance</b> Dynamic All. <b>0.000%</b> Plan Review Construction <b>Cored</b> Fiber Rigging Aramid Core Crew Arm Ex Carbon Rudder Light Stanchions
<b>COMMENTS</b> TPS needed for ORCi		IMSL <b>11.364m</b> VCGD <b>-0.286m</b> Sink <b>21.66kg/mm</b> RL <b>10.736m</b> VCGM <b>-0.308m</b> WS <b>30.23m²</b> LSM0 <b>11.127m</b> Displacement/Length ratio <b>4.0257</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.410</b> Type <b>Folding 2 blades</b> PBW <b>0.102</b> PIPA <b>0.0036</b>		Water Ballast <b>0</b> Trim Tab 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>523.6</b>	<b>589.4</b>
Time on Time	<b>1.1458</b>	<b>1.1452</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>600.6 479.4 424.9</b>	<b>780.7 593.4 520.5</b>
Time on Time	<b>1.1239 1.4079 1.5886</b>	<b>0.8646 1.1375 1.2969</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>mr. Brightside</b>	Certificate Number	<b>US6731</b>
Sail Nr	<b>NED 9440</b>	Issued On	<b>10/11/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>893.1</b>	<b>732.0</b>	<b>668.4</b>	<b>644.5</b>	<b>633.3</b>	<b>618.7</b>	<b>614.8</b>
52°	<b>583.1</b>	<b>490.9</b>	<b>464.0</b>	<b>454.8</b>	<b>449.9</b>	<b>445.2</b>	<b>437.8</b>
60°	<b>548.8</b>	<b>473.8</b>	<b>450.9</b>	<b>441.0</b>	<b>435.0</b>	<b>431.9</b>	<b>418.6</b>
75°	<b>508.9</b>	<b>460.1</b>	<b>438.1</b>	<b>419.8</b>	<b>409.0</b>	<b>402.1</b>	<b>392.0</b>
90°	<b>493.5</b>	<b>445.9</b>	<b>422.6</b>	<b>406.0</b>	<b>390.7</b>	<b>376.4</b>	<b>362.4</b>
110°	<b>507.8</b>	<b>449.6</b>	<b>416.6</b>	<b>386.6</b>	<b>363.2</b>	<b>346.9</b>	<b>322.0</b>
120°	<b>536.2</b>	<b>459.9</b>	<b>424.1</b>	<b>391.9</b>	<b>363.7</b>	<b>336.9</b>	<b>299.6</b>
135°	<b>609.9</b>	<b>490.3</b>	<b>443.9</b>	<b>409.6</b>	<b>375.7</b>	<b>342.6</b>	<b>289.6</b>
150°	<b>722.7</b>	<b>574.5</b>	<b>489.8</b>	<b>445.9</b>	<b>414.6</b>	<b>383.4</b>	<b>321.0</b>
Run VMG	<b>834.4</b>	<b>663.3</b>	<b>565.5</b>	<b>506.9</b>	<b>468.7</b>	<b>437.1</b>	<b>370.7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>863.8</b>	<b>697.7</b>	<b>617.0</b>	<b>575.7</b>	<b>551.0</b>	<b>527.9</b>	<b>492.7</b>
Circular Random	<b>726.7</b>	<b>591.8</b>	<b>520.6</b>	<b>479.1</b>	<b>452.3</b>	<b>433.0</b>	<b>405.3</b>
Coastal / Long Distance	<b>860.9</b>	<b>655.8</b>	<b>557.6</b>	<b>501.8</b>	<b>467.7</b>	<b>435.2</b>	<b>382.7</b>
Non Spinnaker	<b>796.0</b>	<b>640.5</b>	<b>556.8</b>	<b>507.4</b>	<b>476.0</b>	<b>454.3</b>	<b>424.8</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>39.8°</b>	<b>38.3°</b>	<b>38.3°</b>	<b>37.5°</b>	<b>38.2°</b>
Beat VMG	<b>4.03</b>	<b>4.92</b>	<b>5.39</b>	<b>5.59</b>	<b>5.68</b>	<b>5.82</b>	<b>5.86</b>
52°	<b>6.17</b>	<b>7.33</b>	<b>7.76</b>	<b>7.92</b>	<b>8.00</b>	<b>8.09</b>	<b>8.22</b>
60°	<b>6.56</b>	<b>7.60</b>	<b>7.98</b>	<b>8.16</b>	<b>8.28</b>	<b>8.34</b>	<b>8.60</b>
75°	<b>7.07</b>	<b>7.82</b>	<b>8.22</b>	<b>8.57</b>	<b>8.80</b>	<b>8.95</b>	<b>9.18</b>
90°	<b>7.30</b>	<b>8.07</b>	<b>8.52</b>	<b>8.87</b>	<b>9.21</b>	<b>9.56</b>	<b>9.93</b>
110°	<b>7.09</b>	<b>8.01</b>	<b>8.64</b>	<b>9.31</b>	<b>9.91</b>	<b>10.38</b>	<b>11.18</b>
120°	<b>6.71</b>	<b>7.83</b>	<b>8.49</b>	<b>9.19</b>	<b>9.90</b>	<b>10.69</b>	<b>12.02</b>
135°	<b>5.90</b>	<b>7.34</b>	<b>8.11</b>	<b>8.79</b>	<b>9.58</b>	<b>10.51</b>	<b>12.43</b>
150°	<b>4.98</b>	<b>6.27</b>	<b>7.35</b>	<b>8.07</b>	<b>8.68</b>	<b>9.39</b>	<b>11.21</b>
Run VMG	<b>4.31</b>	<b>5.43</b>	<b>6.37</b>	<b>7.10</b>	<b>7.68</b>	<b>8.24</b>	<b>9.71</b>
Gybe Angles	<b>143.5°</b>	<b>143.1°</b>	<b>149.5°</b>	<b>156.5°</b>	<b>170.0°</b>	<b>180.0°</b>	<b>146.5°</b>