



**ORC**  
Offshore Racing Congress  
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**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **041/20**  
Issued On **23/06/2020**  
ORC Ref **03850000L73**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 342kg  
Maximum **450kg**  
Minimum\* **338kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>739.7</b>	<b>0.8111</b>
Non Spin OSN	<b>717.6</b>	<b>0.8362</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes** **32.46**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

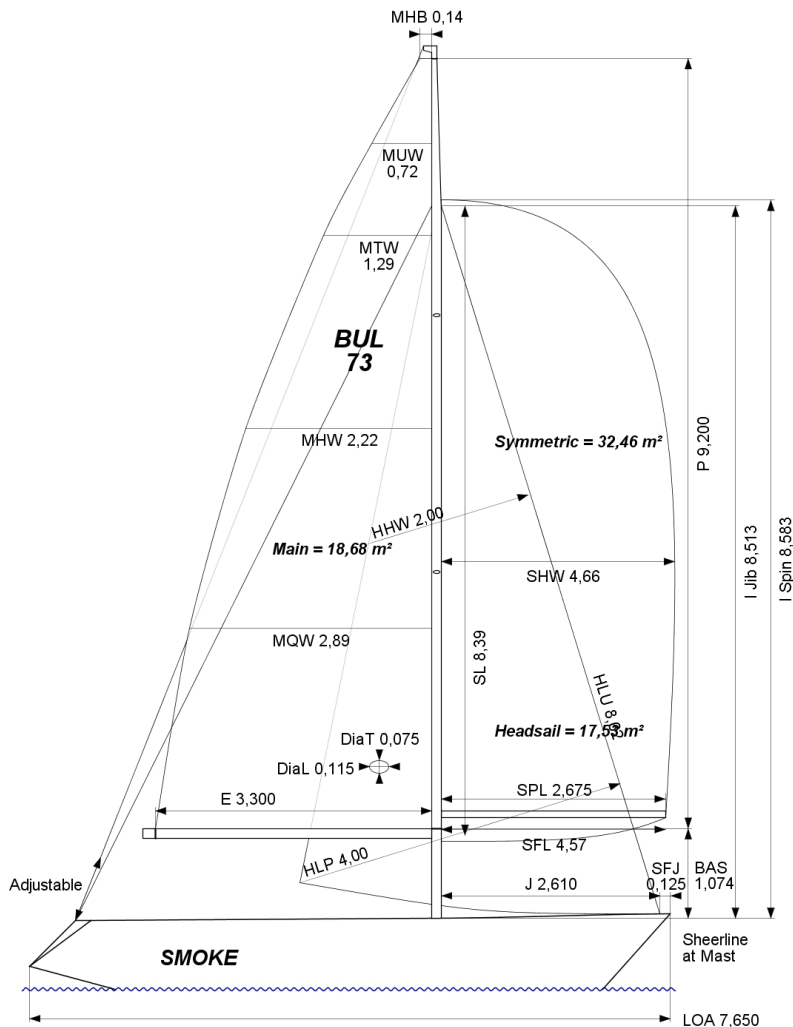
**Class Division Length**

**CDL = 6.374**

**Stability (Estimated)**

Limit Positive Stab.: **116.7°**  
Stability Index: **108.8**

**Owner**



BOAT	GPH	HULL
Name <b>Smoke</b> Sail Nr <b>BUL-73</b>	<b>718.7</b>	Data File <b>BUL73</b> LOA <b>7.650m</b> Offset File <b>C760.off</b> MB <b>2.756m</b> Displacement <b>1,429kg</b> Draft <b>1.504m</b>
<b>CLASS</b> Class <b>Conrad 25R</b> Designer <b>Doug Peterson</b> Builder <b>Conrad Gdansk</b> Series <b>01/1978</b> Age Date <b>01/1983</b> Age Allowance <b>0.487%</b>		IMS Division <b>Performance</b> Dynamic All. <b>0.003%</b> Plan Review Construction <b>Solid</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>No</b> Light Stanchions <b>No</b>
<b>COMMENTS</b>		IMSL <b>6.121m</b> VCGD <b>-0.077m</b> Sink <b>7.87kg/mm</b> RL <b>6.625m</b> VCGM <b>-0.061m</b> WS <b>10.79m²</b> LSM0 <b>6.128m</b> Displacement/Length ratio <b>6.2098</b>
<b>PROPELLER</b> Type <b>No Propeller</b>		Water Ballast <b>0</b> Trim Tab <b>No</b> 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>699.3</b>	<b>773.4</b>
Time on Time	<b>0.8579</b>	<b>0.8728</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>806.9 642.1 578.8</b>	<b>1029.4 774.2 690.5</b>
Time on Time	<b>0.8365 1.0512 1.1662</b>	<b>0.6557 0.8719 0.9776</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>		Certificate Number	041/20
Name	<b>Smoke</b>	Issued On	<b>23/06/2020</b>
Sail Nr	<b>BUL-73</b>		

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1134.0</b>	<b>954.4</b>	<b>857.4</b>	<b>820.4</b>	<b>809.8</b>	<b>807.0</b>	<b>816.6</b>
52°	<b>754.0</b>	<b>652.1</b>	<b>617.1</b>	<b>598.3</b>	<b>589.4</b>	<b>584.8</b>	<b>585.1</b>
60°	<b>716.5</b>	<b>634.6</b>	<b>604.5</b>	<b>583.4</b>	<b>569.8</b>	<b>563.3</b>	<b>560.1</b>
75°	<b>693.9</b>	<b>625.5</b>	<b>593.2</b>	<b>567.4</b>	<b>546.7</b>	<b>533.6</b>	<b>524.2</b>
90°	<b>701.5</b>	<b>625.7</b>	<b>585.0</b>	<b>553.6</b>	<b>533.1</b>	<b>517.5</b>	<b>492.2</b>
110°	<b>727.8</b>	<b>626.4</b>	<b>583.7</b>	<b>546.2</b>	<b>515.4</b>	<b>489.7</b>	<b>457.0</b>
120°	<b>755.4</b>	<b>638.8</b>	<b>593.1</b>	<b>556.8</b>	<b>524.3</b>	<b>494.7</b>	<b>440.2</b>
135°	<b>838.0</b>	<b>688.5</b>	<b>619.2</b>	<b>582.1</b>	<b>547.7</b>	<b>517.4</b>	<b>459.0</b>
150°	<b>976.5</b>	<b>781.9</b>	<b>666.8</b>	<b>612.8</b>	<b>578.7</b>	<b>546.6</b>	<b>491.7</b>
Run VMG	<b>1127.5</b>	<b>901.9</b>	<b>762.9</b>	<b>670.0</b>	<b>616.8</b>	<b>583.1</b>	<b>524.5</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1130.8</b>	<b>928.2</b>	<b>810.2</b>	<b>745.2</b>	<b>713.3</b>	<b>695.1</b>	<b>670.5</b>
Circular Random	<b>972.5</b>	<b>793.3</b>	<b>698.6</b>	<b>644.2</b>	<b>610.8</b>	<b>588.9</b>	<b>560.2</b>
Coastal / Long Distance	<b>1130.5</b>	<b>876.6</b>	<b>740.2</b>	<b>664.9</b>	<b>624.5</b>	<b>590.9</b>	<b>531.8</b>
Non Spinnaker	<b>1008.8</b>	<b>819.2</b>	<b>718.4</b>	<b>660.2</b>	<b>624.5</b>	<b>601.1</b>	<b>571.2</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>40.9°</b>	<b>40.9°</b>	<b>38.3°</b>	<b>36.8°</b>	<b>36.4°</b>	<b>36.4°</b>	<b>37.5°</b>
Beat VMG	<b>3.17</b>	<b>3.77</b>	<b>4.20</b>	<b>4.39</b>	<b>4.45</b>	<b>4.46</b>	<b>4.41</b>
52°	<b>4.77</b>	<b>5.52</b>	<b>5.83</b>	<b>6.02</b>	<b>6.11</b>	<b>6.16</b>	<b>6.15</b>
60°	<b>5.02</b>	<b>5.67</b>	<b>5.96</b>	<b>6.17</b>	<b>6.32</b>	<b>6.39</b>	<b>6.43</b>
75°	<b>5.19</b>	<b>5.76</b>	<b>6.07</b>	<b>6.35</b>	<b>6.58</b>	<b>6.75</b>	<b>6.87</b>
90°	<b>5.13</b>	<b>5.75</b>	<b>6.15</b>	<b>6.50</b>	<b>6.75</b>	<b>6.96</b>	<b>7.31</b>
110°	<b>4.95</b>	<b>5.75</b>	<b>6.17</b>	<b>6.59</b>	<b>6.98</b>	<b>7.35</b>	<b>7.88</b>
120°	<b>4.77</b>	<b>5.64</b>	<b>6.07</b>	<b>6.47</b>	<b>6.87</b>	<b>7.28</b>	<b>8.18</b>
135°	<b>4.30</b>	<b>5.23</b>	<b>5.81</b>	<b>6.18</b>	<b>6.57</b>	<b>6.96</b>	<b>7.84</b>
150°	<b>3.69</b>	<b>4.60</b>	<b>5.40</b>	<b>5.87</b>	<b>6.22</b>	<b>6.59</b>	<b>7.32</b>
Run VMG	<b>3.19</b>	<b>3.99</b>	<b>4.72</b>	<b>5.37</b>	<b>5.84</b>	<b>6.17</b>	<b>6.86</b>
Gybe Angles	<b>149.0°</b>	<b>153.0°</b>	<b>156.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>