



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

**2020**  
**Club**  
**Double Handed**

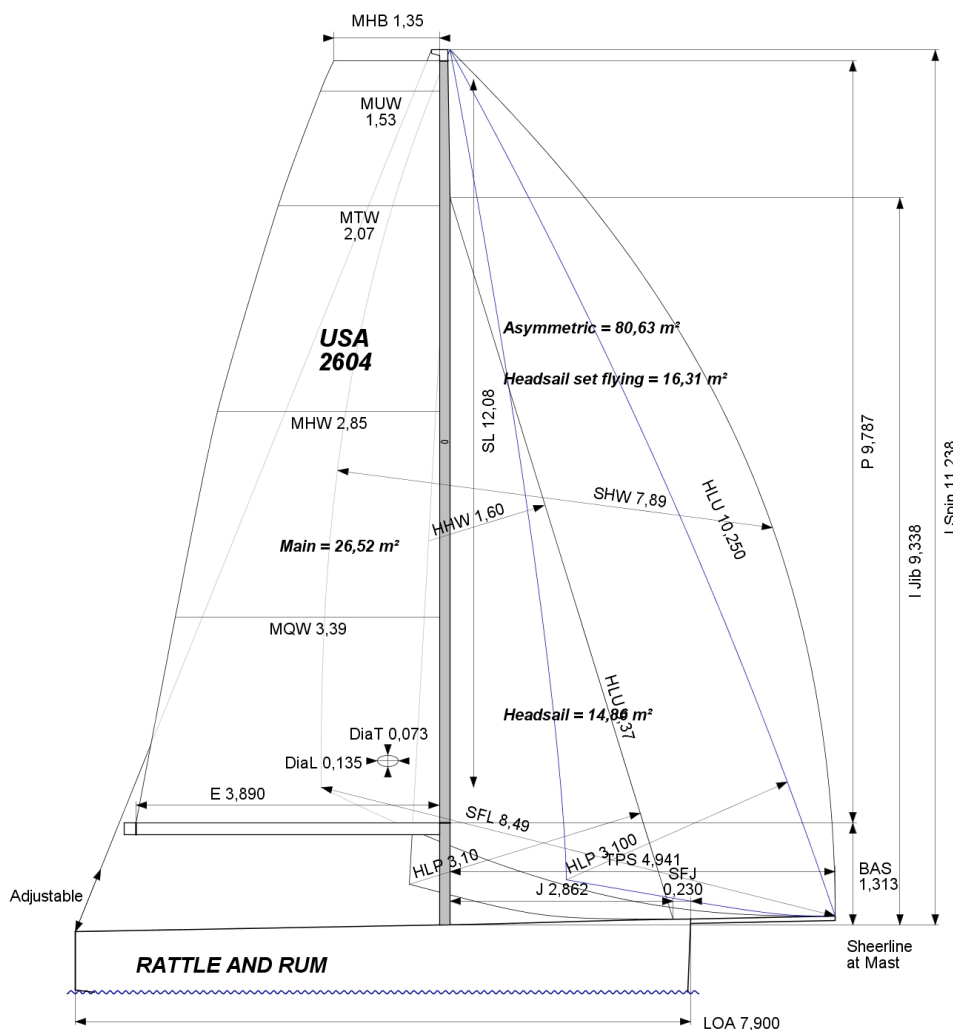
**Rating Office**

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**Racing**  
**Congress**

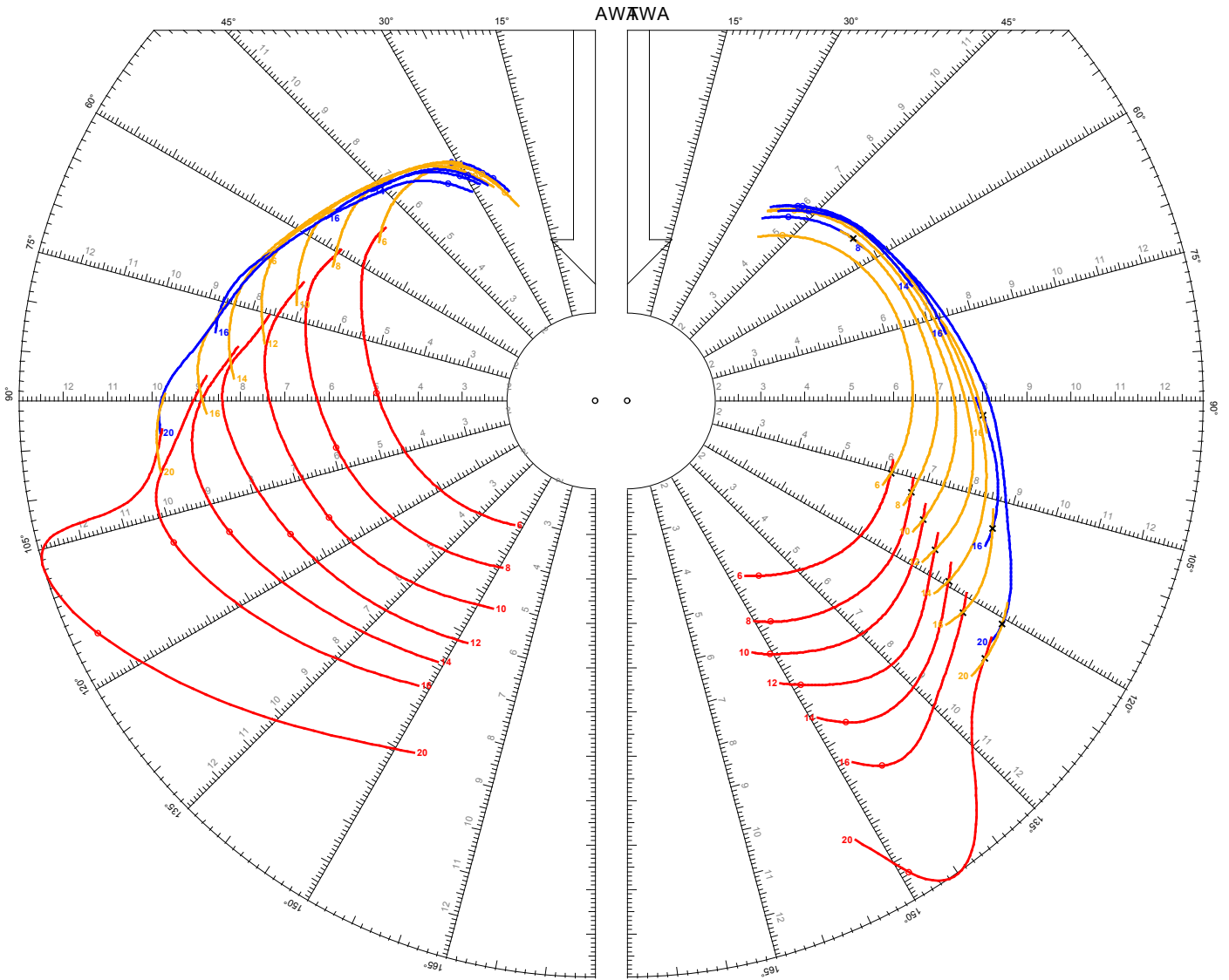


**Certificate**

Number **US6003**  
Issued On **01/10/2020**  
ORC Ref **03410000RBM**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**



<b>BOAT</b> Name <b>RATTLE AND RUM</b> Sail Nr <b>USA2604</b>		<b>GPH</b> <b>621.5</b>	<b>HULL</b> Data File <b>US6003 DH</b> LOA <b>7.900m</b> Offset File <b>wracegp26.off</b> MB <b>2.554m</b> Displacement <b>1,142kg</b> Draft <b>1.902m</b>		<b>Crew Weight</b> Default <b>170kg</b> Maximum <b>170kg</b> Non Manual Pwr <b>No</b>	
<b>CLASS</b> Class <b>GP 26</b> Designer <b>DONOVAN</b> Builder <b>Mag Marin Istanbul</b> Series <b>01/2011</b> Age Date <b>01/2015</b> Age Allowance <b>0.292%</b>			<b>IMS Division</b> <b>Sportboat</b> Dynamic All. <b>0.000%</b> Fiber Rigging <b>No</b> Construction <b>Cored</b> Crew Arm Ex Aramid Core <b>No</b> Carbon Rudder <b>Yes</b> Light Stanchions <b>No</b>		<b>Sails Limitations</b> Headsails <b>5</b> Spinnakers <b>4</b> <b>Asymmetric on centerline</b> <b>Spinnaker configuration</b> Symmetric: <b>No</b> Asymmetric: <b>Yes 80.63</b> Flying H/S: <b>Yes 27.76</b> Spin. Pole: <b>No</b>	
<b>COMMENTS</b>			<b>IMSL</b> <b>7.880m</b> VCGD <b>-0.135m</b> Sink <b>10.12kg/mm</b> RL <b>6.654m</b> VCGM <b>-0.141m</b> WS <b>12.92m²</b> LSM0 <b>7.635m</b> Displacement/Length ratio <b>2.5659</b>		<b>Stability (Measured)</b> Limit Positive Stab.: <b>116.2°</b> Stability Index: <b>108.5</b>	
<b>PROPELLER</b> Type <b>No Propeller</b>			<b>BILGEBOARD</b> BS BT BA BF BX BC BY		<b>Owner</b>	
<b>SCORING OPTIONS</b>						
	Time on Distance	Time on Time				
Coastal or Long Distance	<b>616.0</b>	<b>0.9740</b>				
Circular Random	<b>621.5</b>	<b>0.9654</b>				
Predominantly Upwind	<b>629.8</b>	<b>0.9527</b>				
Predominantly Downwind	<b>542.1</b>	<b>1.1068</b>				



**Polar Plot for Boat**  
 Name **RATTLE AND RUM**  
 Sail Number **USA2604**  
 Class **GP 26**  
 Designer **DONOVAN**  
 Builder **Mag Marin Istanbul**  
 Issued On **01/10/2020 - VPP 2020 1.02**

# 2020

## Double Handed Certificate Appendix

<b>BOAT</b>			
Name	<b>RATTLE AND RUM</b>	Certificate Number	<b>US6003</b>
Sail Nr	<b>USA2604</b>	Issued On	<b>01/10/2020</b>

<b>TIME ALLOWANCES</b>								
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	
Beat VMG	<b>958.8</b>	<b>859.7</b>	<b>826.4</b>	<b>818.6</b>	<b>822.9</b>	<b>822.3</b>	<b>844.0</b>	
52°	<b>624.3</b>	<b>579.2</b>	<b>564.0</b>	<b>557.2</b>	<b>559.3</b>	<b>555.7</b>	<b>559.0</b>	
60°	<b>588.9</b>	<b>556.4</b>	<b>543.4</b>	<b>535.5</b>	<b>538.9</b>	<b>532.8</b>	<b>533.1</b>	
75°	<b>563.4</b>	<b>530.2</b>	<b>513.3</b>	<b>501.7</b>	<b>494.2</b>	<b>496.1</b>	<b>486.9</b>	
90°	<b>561.1</b>	<b>515.1</b>	<b>487.8</b>	<b>471.5</b>	<b>460.2</b>	<b>453.0</b>	<b>442.7</b>	
110°	<b>584.9</b>	<b>531.1</b>	<b>497.0</b>	<b>455.6</b>	<b>427.4</b>	<b>411.4</b>	<b>394.0</b>	
120°	<b>595.4</b>	<b>522.2</b>	<b>487.7</b>	<b>452.0</b>	<b>423.2</b>	<b>401.1</b>	<b>367.7</b>	
135°	<b>668.9</b>	<b>549.0</b>	<b>485.8</b>	<b>429.7</b>	<b>396.2</b>	<b>370.2</b>	<b>326.7</b>	
150°	<b>794.6</b>	<b>629.0</b>	<b>546.7</b>	<b>489.5</b>	<b>432.1</b>	<b>380.9</b>	<b>294.6</b>	
Run VMG	<b>917.5</b>	<b>726.3</b>	<b>633.5</b>	<b>565.2</b>	<b>499.0</b>	<b>439.8</b>	<b>340.2</b>	
<b>Selected Courses</b>								
Windward / Leeward	<b>938.2</b>	<b>793.0</b>	<b>730.0</b>	<b>691.9</b>	<b>660.9</b>	<b>631.0</b>	<b>592.1</b>	
Circular Random	<b>816.0</b>	<b>677.5</b>	<b>606.3</b>	<b>565.6</b>	<b>539.6</b>	<b>521.1</b>	<b>495.3</b>	
Coastal / Long Distance	<b>936.1</b>	<b>745.5</b>	<b>657.8</b>	<b>599.1</b>	<b>558.8</b>	<b>520.3</b>	<b>461.6</b>	
Non Spinnaker	<b>918.2</b>	<b>746.3</b>	<b>655.8</b>	<b>604.0</b>	<b>571.8</b>	<b>550.0</b>	<b>520.7</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>43.1°</b>	<b>41.3°</b>	<b>40.9°</b>	<b>41.1°</b>	<b>41.3°</b>	<b>42.0°</b>	<b>43.7°</b>	
Beat VMG	<b>3.75</b>	<b>4.19</b>	<b>4.36</b>	<b>4.40</b>	<b>4.37</b>	<b>4.38</b>	<b>4.27</b>	
52°	<b>5.77</b>	<b>6.22</b>	<b>6.38</b>	<b>6.46</b>	<b>6.44</b>	<b>6.48</b>	<b>6.44</b>	
60°	<b>6.11</b>	<b>6.47</b>	<b>6.63</b>	<b>6.72</b>	<b>6.68</b>	<b>6.76</b>	<b>6.75</b>	
75°	<b>6.39</b>	<b>6.79</b>	<b>7.01</b>	<b>7.18</b>	<b>7.28</b>	<b>7.26</b>	<b>7.39</b>	
90°	<b>6.42</b>	<b>6.99</b>	<b>7.38</b>	<b>7.64</b>	<b>7.82</b>	<b>7.95</b>	<b>8.13</b>	
110°	<b>6.15</b>	<b>6.78</b>	<b>7.24</b>	<b>7.90</b>	<b>8.42</b>	<b>8.75</b>	<b>9.14</b>	
120°	<b>6.05</b>	<b>6.89</b>	<b>7.38</b>	<b>7.97</b>	<b>8.51</b>	<b>8.97</b>	<b>9.79</b>	
135°	<b>5.38</b>	<b>6.56</b>	<b>7.41</b>	<b>8.38</b>	<b>9.09</b>	<b>9.72</b>	<b>11.02</b>	
150°	<b>4.53</b>	<b>5.72</b>	<b>6.59</b>	<b>7.35</b>	<b>8.33</b>	<b>9.45</b>	<b>12.22</b>	
Run VMG	<b>3.92</b>	<b>4.96</b>	<b>5.68</b>	<b>6.37</b>	<b>7.21</b>	<b>8.19</b>	<b>10.58</b>	
Gybe Angles	<b>143.0°</b>	<b>147.0°</b>	<b>150.5°</b>	<b>148.5°</b>	<b>145.8°</b>	<b>145.0°</b>	<b>149.1°</b>	