



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

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

**Rating Office**

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



**Certificate**

Number **US6722**  
Issued On **21/09/2020**  
ORC Ref **03410000QQ1**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 1,966kg  
Maximum **1,966kg**  
Minimum\* **1,475kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>398.9</b>	<b>1.5041</b>
Non Spin OSN	<b>393.1</b>	<b>1.5264</b>

**Sails Limitations**

Headsails **8** Spinnakers **6**

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 489.09**  
Flying H/S: **No**  
Spin. Pole: **No**

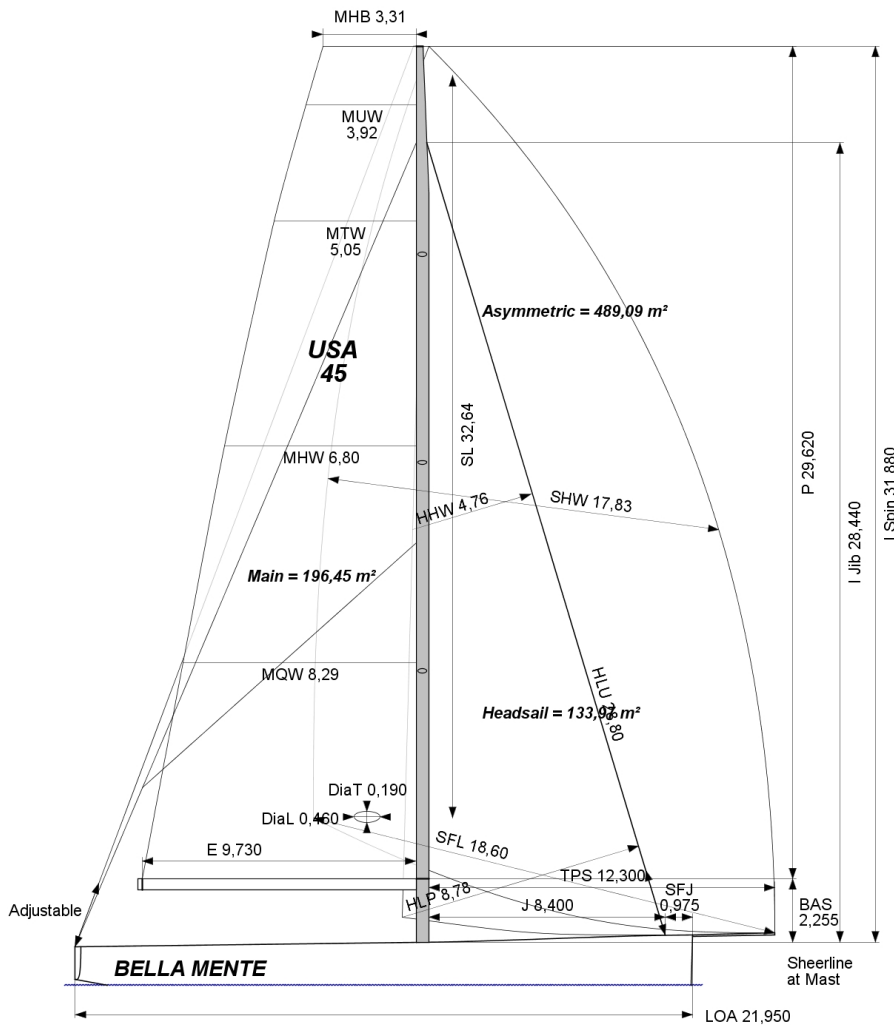
**Class Division Length**

**CDL = 22.277**

**Stability (Measured)**

Limit Positive Stab.: **149.3°**  
Stability Index: **152.8**

**Owner**



BOAT	GPH	HULL
Name <b>BELLA MENTE</b> Sail Nr <b>USA45</b>	<b>372.4</b>	Data File <b>US6722</b> LOA <b>21.950m</b> Offset File <b>BP317_2020A.OF</b> MB <b>5.762m</b> Displacement <b>15,894kg</b> Draft <b>5.651m</b>
<b>CLASS</b> Class <b>Maxi 72</b> Designer <b>Botin</b> Builder <b>NEB</b> Series <b>01/2018</b> Age Date <b>08/2018</b> Age Allowance <b>0.065%</b>		IMS Division <b>Performance</b> Dynamic All. <b>0.000%</b> Plan Review Construction <b>Carbon</b> Fiber Rigging <b>Yes</b> Aramid Core <b>Yes</b> Crew Arm Ex Carbon Rudder <b>Yes</b> Light Stanchions <b>Yes</b>
<b>COMMENTS</b>		IMSL <b>21.188m</b> VCGD <b>-2.489m</b> Sink <b>58.18kg/mm</b> RL <b>23.340m</b> VCGM <b>-2.482m</b> WS <b>75.77m²</b> LSM0 <b>20.869m</b> Displacement/Length ratio <b>1.7488</b>
<b>PROPELLER</b> Type <b>No Propeller</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>363.1</b>	<b>414.0</b>
Time on Time	<b>1.6526</b>	<b>1.6303</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>433.6 330.7 276.4</b>	<b>569.1 420.8 349.3</b>
Time on Time	<b>1.5567 2.0413 2.4418</b>	<b>1.1860 1.6039 1.9324</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>BELLA MENTE</b>	Certificate Number	<b>US6722</b>
Sail Nr	<b>USA45</b>	Issued On	<b>21/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>612.1</b>	<b>500.4</b>	<b>458.7</b>	<b>437.1</b>	<b>420.9</b>	<b>408.6</b>	<b>399.0</b>
52°	<b>394.0</b>	<b>337.1</b>	<b>319.6</b>	<b>307.4</b>	<b>297.4</b>	<b>285.1</b>	<b>272.8</b>
60°	<b>366.6</b>	<b>323.2</b>	<b>304.2</b>	<b>290.6</b>	<b>280.9</b>	<b>270.2</b>	<b>255.2</b>
75°	<b>347.3</b>	<b>308.3</b>	<b>282.4</b>	<b>267.8</b>	<b>257.4</b>	<b>249.1</b>	<b>227.2</b>
90°	<b>349.9</b>	<b>309.3</b>	<b>274.9</b>	<b>252.8</b>	<b>239.1</b>	<b>228.1</b>	<b>213.3</b>
110°	<b>387.7</b>	<b>330.2</b>	<b>296.5</b>	<b>268.6</b>	<b>239.0</b>	<b>214.5</b>	<b>191.7</b>
120°	<b>420.1</b>	<b>337.1</b>	<b>297.7</b>	<b>271.9</b>	<b>248.1</b>	<b>224.3</b>	<b>191.6</b>
135°	<b>474.9</b>	<b>367.3</b>	<b>319.9</b>	<b>283.8</b>	<b>251.4</b>	<b>226.5</b>	<b>195.5</b>
150°	<b>570.1</b>	<b>438.0</b>	<b>367.4</b>	<b>329.5</b>	<b>297.2</b>	<b>263.5</b>	<b>209.4</b>
Run VMG	<b>658.3</b>	<b>505.8</b>	<b>424.2</b>	<b>380.5</b>	<b>343.2</b>	<b>304.3</b>	<b>241.7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>635.2</b>	<b>503.1</b>	<b>441.5</b>	<b>408.8</b>	<b>382.0</b>	<b>356.4</b>	<b>320.4</b>
Circular Random	<b>520.9</b>	<b>418.2</b>	<b>361.7</b>	<b>326.7</b>	<b>302.3</b>	<b>283.7</b>	<b>255.9</b>
Coastal / Long Distance	<b>637.5</b>	<b>472.9</b>	<b>394.8</b>	<b>347.3</b>	<b>315.2</b>	<b>284.8</b>	<b>239.4</b>
Non Spinnaker	<b>561.8</b>	<b>449.4</b>	<b>387.0</b>	<b>348.4</b>	<b>321.9</b>	<b>302.1</b>	<b>272.9</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>44.3°</b>	<b>41.3°</b>	<b>38.8°</b>	<b>37.1°</b>	<b>35.6°</b>	<b>34.5°</b>	<b>34.5°</b>
Beat VMG	<b>5.88</b>	<b>7.19</b>	<b>7.85</b>	<b>8.24</b>	<b>8.55</b>	<b>8.81</b>	<b>9.02</b>
52°	<b>9.14</b>	<b>10.68</b>	<b>11.26</b>	<b>11.71</b>	<b>12.11</b>	<b>12.63</b>	<b>13.20</b>
60°	<b>9.82</b>	<b>11.14</b>	<b>11.83</b>	<b>12.39</b>	<b>12.81</b>	<b>13.32</b>	<b>14.11</b>
75°	<b>10.37</b>	<b>11.68</b>	<b>12.75</b>	<b>13.44</b>	<b>13.99</b>	<b>14.45</b>	<b>15.85</b>
90°	<b>10.29</b>	<b>11.64</b>	<b>13.09</b>	<b>14.24</b>	<b>15.06</b>	<b>15.78</b>	<b>16.88</b>
110°	<b>9.29</b>	<b>10.90</b>	<b>12.14</b>	<b>13.40</b>	<b>15.06</b>	<b>16.78</b>	<b>18.78</b>
120°	<b>8.57</b>	<b>10.68</b>	<b>12.09</b>	<b>13.24</b>	<b>14.51</b>	<b>16.05</b>	<b>18.79</b>
135°	<b>7.58</b>	<b>9.80</b>	<b>11.25</b>	<b>12.68</b>	<b>14.32</b>	<b>15.89</b>	<b>18.41</b>
150°	<b>6.31</b>	<b>8.22</b>	<b>9.80</b>	<b>10.92</b>	<b>12.11</b>	<b>13.66</b>	<b>17.20</b>
Run VMG	<b>5.47</b>	<b>7.12</b>	<b>8.49</b>	<b>9.46</b>	<b>10.49</b>	<b>11.83</b>	<b>14.89</b>
Gybe Angles	<b>140.5°</b>	<b>140.8°</b>	<b>145.5°</b>	<b>149.5°</b>	<b>144.0°</b>	<b>142.5°</b>	<b>143.8°</b>