



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

**2020  
ORC Club  
Certificate**

**Rating Office**

**Offshore  
Racing  
Congress**



**Certificate**

Number **R78339**  
Issued On **03/09/2020**  
ORC Ref **03570000PMU**  
VPP Ver. **2020 1.02**  
Valid until **31/12/2020**

**Crew Weight**

Default 563kg  
Maximum **450kg**  
Minimum\* **338kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>646.1</b>	<b>0.9286</b>
Non Spin OSN	<b>628.4</b>	<b>0.9548</b>

**Sails Limitations**

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

**Spinnaker configuration**  
Symmetric: **Yes** **88.36**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

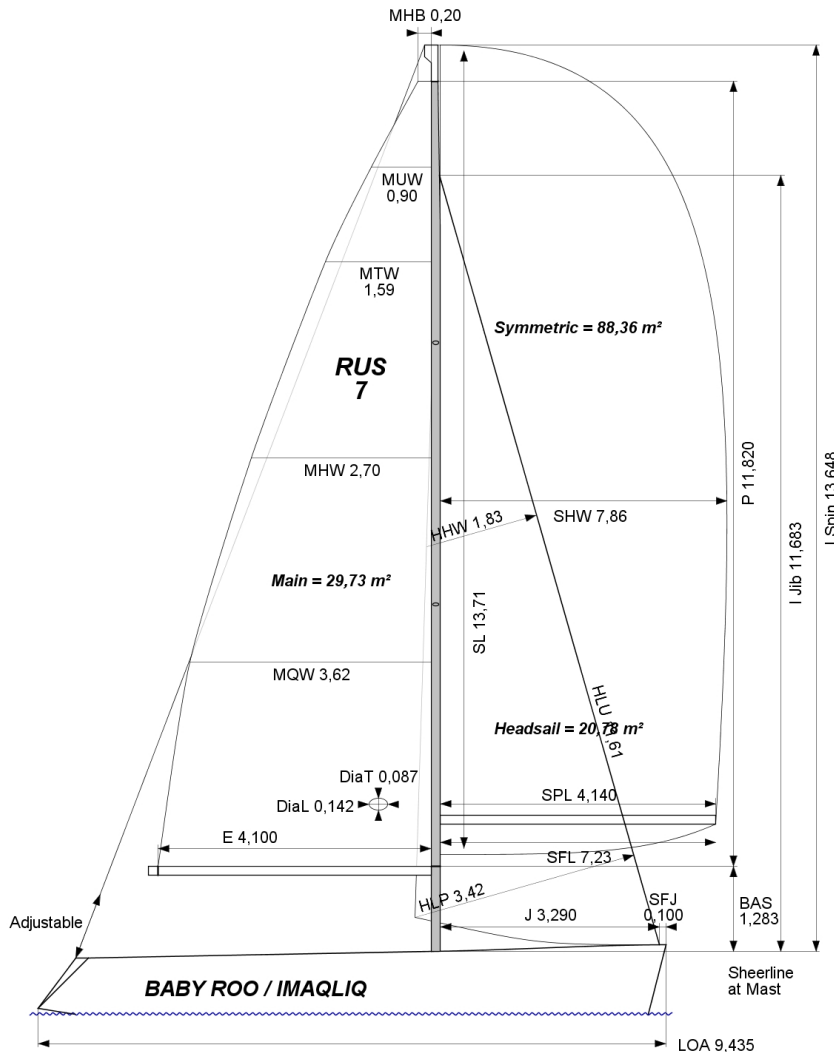
**Class Division Length**

**CDL = 8.777**

**Stability (Measured)**

Limit Positive Stab.: **128.9°**  
Stability Index: **122.8**

**Owner**



BOAT		GPH		HULL		
Name <b>Baby Roo / IMAQLIQ</b> Sail Nr <b>RUS 7</b>		<b>602.5</b>		Data File <b>RU7833_BabyR</b>	LOA <b>9.435m</b>	
				Offset File <b>MUMM30.OFF</b>	MB <b>3.038m</b>	
				Displacement <b>2,306kg</b>	Draft <b>2.140m</b>	
<b>CLASS</b>				IMS Division <b>Performance</b>	Dynamic All. <b>0.000%</b>	
Class <b>Farr 30</b>				Plan Review	Construction <b>Light</b>	
Designer <b>FARR</b>				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>	
Builder <b>DK Malaysia</b>				Crew Arm Ex	Carbon Rudder <b>Yes</b>	
Series <b>07/1996</b>					Light Stanchions <b>No</b>	
Age Date <b>03/2007</b>				IMSL <b>8.912m</b>	VCGD <b>-0.351m</b>	
Age Allowance <b>0.487%</b>				RL <b>8.655m</b>	VCGM <b>-0.303m</b>	
				WS <b>16.01m²</b>		
<b>COMMENTS</b>				LSM0 <b>8.687m</b>	Displacement/Length ratio <b>3.5176</b>	
Iclining and flotation data valid for CLUB certificate only!				Water Ballast <b>0</b>	Trim Tab <b>No</b>	
				BLR Index <b>0.0000</b>		
<b>PROPELLER</b>				<b>CENTERBOARD</b>		
Installation <b>Strut</b>	PRD <b>0.356</b>			<b>N/A</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.095</b>					
	PIPA <b>0.0031</b>					
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>586.8</b>			<b>656.1</b>		
Time on Time	<b>1.0225</b>			<b>1.0288</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>674.3</b>	<b>539.7</b>	<b>479.7</b>	<b>861.8</b>	<b>657.8</b>	<b>579.7</b>
Time on Time	<b>1.0010</b>	<b>1.2506</b>	<b>1.4071</b>	<b>0.7832</b>	<b>1.0262</b>	<b>1.1644</b>

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>Baby Roo / IMAQLIQ</b>	Certificate Number	<b>R78339</b>
Sail Nr	<b>RUS 7</b>	Issued On	<b>03/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>994.0</b>	<b>822.7</b>	<b>742.6</b>	<b>717.8</b>	<b>709.0</b>	<b>701.7</b>	<b>695.8</b>
52°	<b>656.8</b>	<b>557.9</b>	<b>525.6</b>	<b>513.7</b>	<b>508.3</b>	<b>505.8</b>	<b>497.3</b>
60°	<b>622.0</b>	<b>541.1</b>	<b>513.2</b>	<b>498.4</b>	<b>490.9</b>	<b>486.8</b>	<b>476.1</b>
75°	<b>594.7</b>	<b>529.5</b>	<b>501.4</b>	<b>478.8</b>	<b>461.5</b>	<b>452.6</b>	<b>445.6</b>
90°	<b>601.6</b>	<b>529.9</b>	<b>500.8</b>	<b>473.5</b>	<b>447.6</b>	<b>427.2</b>	<b>405.7</b>
110°	<b>586.8</b>	<b>513.2</b>	<b>480.7</b>	<b>458.8</b>	<b>439.0</b>	<b>419.4</b>	<b>384.5</b>
120°	<b>598.7</b>	<b>516.6</b>	<b>476.1</b>	<b>441.7</b>	<b>419.5</b>	<b>399.7</b>	<b>364.7</b>
135°	<b>664.5</b>	<b>542.5</b>	<b>496.7</b>	<b>455.2</b>	<b>414.0</b>	<b>374.9</b>	<b>325.4</b>
150°	<b>784.8</b>	<b>627.3</b>	<b>539.7</b>	<b>497.1</b>	<b>459.3</b>	<b>421.2</b>	<b>342.6</b>
Run VMG	<b>906.2</b>	<b>724.4</b>	<b>620.6</b>	<b>560.3</b>	<b>516.0</b>	<b>481.9</b>	<b>395.7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>950.1</b>	<b>773.5</b>	<b>681.6</b>	<b>639.0</b>	<b>612.5</b>	<b>591.8</b>	<b>545.7</b>
Circular Random	<b>815.6</b>	<b>665.1</b>	<b>585.9</b>	<b>539.9</b>	<b>510.3</b>	<b>488.8</b>	<b>456.0</b>
Coastal / Long Distance	<b>945.7</b>	<b>729.5</b>	<b>621.0</b>	<b>562.3</b>	<b>525.9</b>	<b>493.1</b>	<b>434.8</b>
Non Spinnaker	<b>895.6</b>	<b>720.7</b>	<b>626.7</b>	<b>571.6</b>	<b>536.7</b>	<b>512.7</b>	<b>479.4</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>40.9°</b>	<b>38.6°</b>	<b>37.5°</b>	<b>37.5°</b>	<b>37.1°</b>	<b>37.5°</b>
Beat VMG	<b>3.62</b>	<b>4.38</b>	<b>4.85</b>	<b>5.02</b>	<b>5.08</b>	<b>5.13</b>	<b>5.17</b>
52°	<b>5.48</b>	<b>6.45</b>	<b>6.85</b>	<b>7.01</b>	<b>7.08</b>	<b>7.12</b>	<b>7.24</b>
60°	<b>5.79</b>	<b>6.65</b>	<b>7.01</b>	<b>7.22</b>	<b>7.33</b>	<b>7.40</b>	<b>7.56</b>
75°	<b>6.05</b>	<b>6.80</b>	<b>7.18</b>	<b>7.52</b>	<b>7.80</b>	<b>7.95</b>	<b>8.08</b>
90°	<b>5.98</b>	<b>6.79</b>	<b>7.19</b>	<b>7.60</b>	<b>8.04</b>	<b>8.43</b>	<b>8.87</b>
110°	<b>6.14</b>	<b>7.01</b>	<b>7.49</b>	<b>7.85</b>	<b>8.20</b>	<b>8.58</b>	<b>9.36</b>
120°	<b>6.01</b>	<b>6.97</b>	<b>7.56</b>	<b>8.15</b>	<b>8.58</b>	<b>9.01</b>	<b>9.87</b>
135°	<b>5.42</b>	<b>6.64</b>	<b>7.25</b>	<b>7.91</b>	<b>8.70</b>	<b>9.60</b>	<b>11.06</b>
150°	<b>4.59</b>	<b>5.74</b>	<b>6.67</b>	<b>7.24</b>	<b>7.84</b>	<b>8.55</b>	<b>10.51</b>
Run VMG	<b>3.97</b>	<b>4.97</b>	<b>5.80</b>	<b>6.42</b>	<b>6.98</b>	<b>7.47</b>	<b>9.10</b>
Gybe Angles	<b>144.0°</b>	<b>146.0°</b>	<b>153.0°</b>	<b>161.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>146.0°</b>