



World Leader in Rating Technology

## 2017 ORC Club Certificate

### Rating Office

Žemaites 6  
LT-03117 Vilnius  
Lithuania  
+370 650 28392



### Certificate

Number **LT1556**  
Issued On **2017-06-23**  
ORC Ref **lt00000171**  
VPP Ver. **2017 1.00**  
Valid until **2017-12-31**

### Crew Weight

Declared **600kg**  
Default\* **624kg**  
Non Manual Pwr **No**

### Special Scoring

ToD ToT  
Non Spin GPH **688.6 0.8713**  
Non Spin OSN **666.6 0.9002**

### Sails Limitations

Headsails **5** Spinnakers **3**

### Spinnaker configuration

Symmetric: **Yes 75.29**  
Asymmetric: **Yes 67.61**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

CDL = **8.486**

### Stability (Estimated)

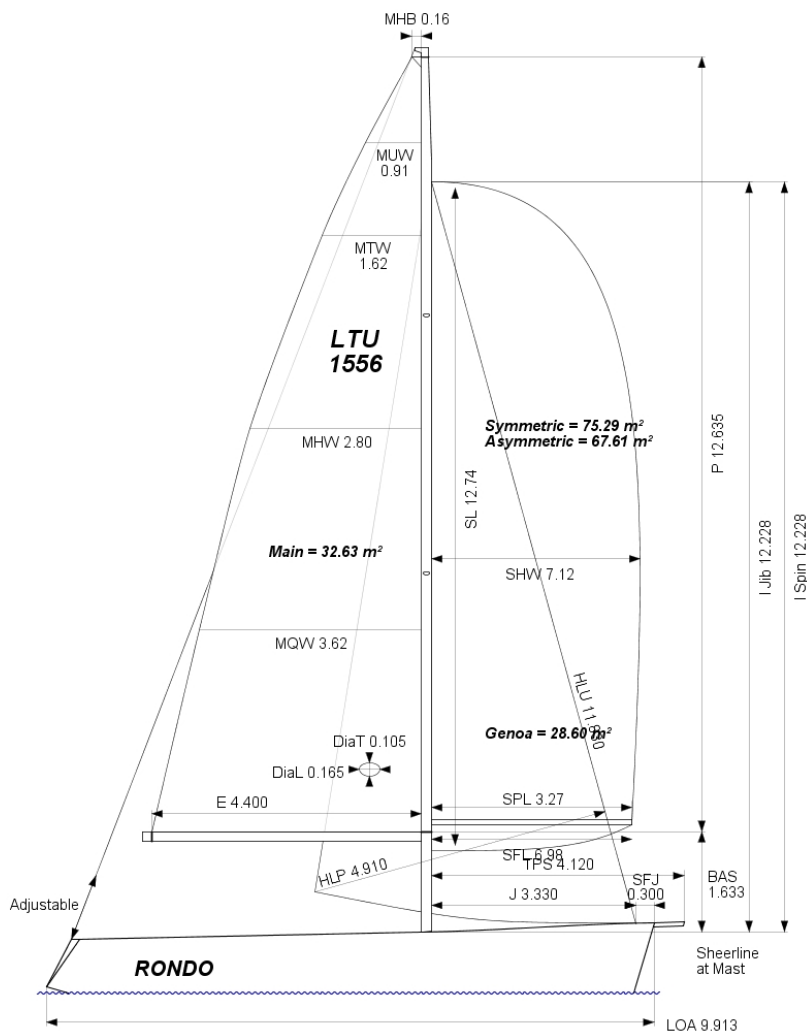
Limit Positive Stab.: **114.4°**  
Stability Index: **116.0**

### Owner

UAB "Statbu bures"  
N. Uosto 3  
LT-92120 Klaipeda

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



<b>BOAT</b> Name <b>Rondo</b> Sail Nr <b>LTU-1556</b>		<b>GPH</b> <b>659.8</b>	<b>HULL</b> Data File <b>Rondo LTU1556</b> LOA <b>9.913m</b> Offset File <b>L14000.OFF</b> MB <b>3.280m</b> Displacement <b>4,851kg</b> Draft <b>1.855m</b>			
<b>CLASS</b> Class <b>Rondo 33.3</b> Designer <b>Jussi Manerberg</b> Builder <b>Veleiro OY</b> Series <b>07-1995</b> Age Date <b>07-1997</b> Age Allowance <b>0.487%</b>			IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.277%</b> Fwd Accom. <b>Yes</b> Construction <b>Cored</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> 4751			IMSL <b>9.276m</b> VCGD <b>0.006m</b> Sink <b>16.98kg/mm</b> RL <b>7.695m</b> VCGM <b>-0.004m</b> WS <b>22.56m<sup>2</sup></b> LSM0 <b>9.337m</b> Displacement/Length ratio <b>5.9595</b>			
<b>PROPELLER</b> Installation <b>Strut</b> PRD Type <b>Feathering 2 blades</b> PIPA <b>0.0037</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>640.8</b>			<b>713.2</b>		
Time On Time	<b>0.9364</b>			<b>0.9464</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>763.5</b>	<b>582.9</b>	<b>514.2</b>	<b>992.5</b>	<b>720.3</b>	<b>613.4</b>
Time on Time	<b>0.8841</b>	<b>1.1580</b>	<b>1.3127</b>	<b>0.6801</b>	<b>0.9371</b>	<b>1.1005</b>

<b>BOAT</b>	
Name <b>Rondo</b>	Sail Nr <b>LTU-1556</b>
File <b>Rondo LTU1556</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Club Estimated VCG</b>			
Flotation date		SG <b>1.0100</b>	
FFM <b>1.120</b>	FF <b>1.133</b>	SFFP <b>0.600</b>	
FAM <b>0.877</b>	FA <b>0.885</b>	SAFP <b>9.366</b>	
LCF from stem on CL / on sheer		<b>5.638 / 5.859</b>	
Maximum beam station from stem		<b>6.625</b>	
RM Measured		<b>98.7kg·m</b>	
RM Default		<b>95.8kg·m</b>	
Limit of positive stability / Stab.Index		<b>114.4° / 116.0</b>	
Freeboard at mast at 3.630		<b>0.997</b>	

<b>RIG</b>				
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>			
Inner Stay <b>None Fitted</b>	Runners <b>0</b>			
Carbon Mast <b>No</b>	Jumper Struts <b>None</b>			
Taper Hollows <b>No</b>	Jib Furler <b>No</b>			
Fiber Rigging <b>No</b>	Main Furler <b>No</b>			
Lenticular Rigging <b>No</b>	Without Backstay <b>No</b>			
Articulated Bowsprit <b>No</b>				
P <b>12.635</b>	E <b>4.400</b>	MDT1 <b>0.105</b>	MW <b>0.165</b>	
IG <b>12.228</b>	J <b>3.330</b>	MDL1 <b>0.165</b>	GO	
ISP <b>12.228</b>	SFJ <b>0.300</b>	MDT2 <b>0.090</b>	BD	
BAS <b>1.633</b>	SPL <b>3.270</b>	MDL2 <b>0.120</b>	MWT	
FSP	TPS <b>4.120</b>	TL <b>1.700</b>	MCG	



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## 2017 Measurements Datasheet

<b>MIZZEN RIG AND SAILS</b>	
N/A	

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD	
Type <b>Feathering 2 blades</b>	PBW	
Twin Screw <b>No</b>	PIPA <b>0.0037</b>	
ST1 <b>0.048</b>	ST3 <b>0.170</b>	ST5 <b>0.480</b>
ST2 <b>0.170</b>	ST4 <b>0.098</b>	EDL <b>2.000</b>

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<b>COMMENTS</b>
4751

<b>MOVEABLE BALLAST</b>
N/A

<b>CENTERBOARD</b>
N/A

<b>SAILS INVENTORY</b>																	
<b>MANSAL (2)</b>																	
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment						
M1	0.160	0.91	1.62	2.80	3.62	32.63	Vilius Tamkvaitis	16-05-2012	WB-Sails	Unknown							
1	0.122	0.80	1.47	2.57	3.49	30.93		01-05-2010	North	Dacron							
<b>HEADSAILS (3)</b>																	
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment	
3	0.09	0.62	1.17	2.36	3.63	4.91	11.83	147%	28.61			Rimantas	21-06-2017			Unknow	
G1	0.06	0.59	1.15	2.32	3.57	4.79	11.88	144%	28.13			Vilius	16-05-2012	WB-Sails		Unknow	
G3	0.07	0.40	0.78	1.57	2.45	3.34	11.74	100%	19.11			Vilius	16-05-2012	WB-Sails		Unknow	
<b>SYMMETRIC SPINNAKERS (2)</b>																	
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment						
AP	12.74	12.74	12.74	7.12	6.98	75.29				North	Unknown						
1	11.70	11.70	11.70	5.78	5.78	56.35				Sanders	Nylon						
<b>ASYMMETRIC SPINNAKERS (1)</b>																	
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment					
1	12.75	11.54	12.14	6.58	7.08	67.61	asym			Hyde	Dacron						



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# 2017

## ORC Club Certificate Appendix

BOAT	
Name	<b>Rondo</b>
Sail Nr	<b>LTU-1556</b>
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1126.1</b>	<b>935.6</b>	<b>830.6</b>	<b>761.2</b>	<b>730.2</b>	<b>715.1</b>	<b>706.9</b>
52°	<b>734.8</b>	<b>618.5</b>	<b>555.5</b>	<b>527.4</b>	<b>514.5</b>	<b>508.7</b>	<b>504.2</b>
60°	<b>692.0</b>	<b>584.5</b>	<b>535.9</b>	<b>513.8</b>	<b>500.9</b>	<b>493.8</b>	<b>488.3</b>
75°	<b>657.5</b>	<b>560.2</b>	<b>521.8</b>	<b>502.3</b>	<b>486.7</b>	<b>473.4</b>	<b>459.1</b>
90°	<b>660.5</b>	<b>558.0</b>	<b>513.5</b>	<b>491.0</b>	<b>478.1</b>	<b>468.3</b>	<b>439.7</b>
110°	<b>671.3</b>	<b>556.2</b>	<b>511.9</b>	<b>487.2</b>	<b>462.9</b>	<b>443.4</b>	<b>418.0</b>
120°	<b>693.0</b>	<b>571.1</b>	<b>518.6</b>	<b>492.9</b>	<b>469.3</b>	<b>444.7</b>	<b>406.0</b>
135°	<b>769.0</b>	<b>630.8</b>	<b>544.0</b>	<b>509.3</b>	<b>486.6</b>	<b>463.6</b>	<b>418.1</b>
150°	<b>922.6</b>	<b>730.0</b>	<b>613.1</b>	<b>540.5</b>	<b>509.2</b>	<b>487.8</b>	<b>444.6</b>
Run VMG	<b>1065.3</b>	<b>843.3</b>	<b>707.8</b>	<b>614.4</b>	<b>554.3</b>	<b>517.7</b>	<b>475.1</b>

Selected Courses							
Windward / Leeward	<b>1095.7</b>	<b>889.4</b>	<b>769.2</b>	<b>687.8</b>	<b>642.2</b>	<b>616.4</b>	<b>591.0</b>
Circular Random	<b>914.6</b>	<b>736.4</b>	<b>639.9</b>	<b>583.2</b>	<b>548.0</b>	<b>525.0</b>	<b>495.9</b>
Ocean for PCS	<b>1124.7</b>	<b>866.0</b>	<b>719.3</b>	<b>629.4</b>	<b>571.0</b>	<b>530.6</b>	<b>474.5</b>
Non Spinnaker	<b>965.0</b>	<b>772.3</b>	<b>667.1</b>	<b>604.8</b>	<b>565.9</b>	<b>540.5</b>	<b>509.2</b>

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>43.2°</b>	<b>41.6°</b>	<b>41.8°</b>	<b>40.6°</b>	<b>39.1°</b>	<b>38.4°</b>	<b>38.1°</b>
Beat VMG	<b>3.20</b>	<b>3.85</b>	<b>4.33</b>	<b>4.73</b>	<b>4.93</b>	<b>5.03</b>	<b>5.09</b>
52°	<b>4.90</b>	<b>5.82</b>	<b>6.48</b>	<b>6.83</b>	<b>7.00</b>	<b>7.08</b>	<b>7.14</b>
60°	<b>5.20</b>	<b>6.16</b>	<b>6.72</b>	<b>7.01</b>	<b>7.19</b>	<b>7.29</b>	<b>7.37</b>
75°	<b>5.48</b>	<b>6.43</b>	<b>6.90</b>	<b>7.17</b>	<b>7.40</b>	<b>7.60</b>	<b>7.84</b>
90°	<b>5.45</b>	<b>6.45</b>	<b>7.01</b>	<b>7.33</b>	<b>7.53</b>	<b>7.69</b>	<b>8.19</b>
110°	<b>5.36</b>	<b>6.47</b>	<b>7.03</b>	<b>7.39</b>	<b>7.78</b>	<b>8.12</b>	<b>8.61</b>
120°	<b>5.19</b>	<b>6.30</b>	<b>6.94</b>	<b>7.30</b>	<b>7.67</b>	<b>8.09</b>	<b>8.87</b>
135°	<b>4.68</b>	<b>5.71</b>	<b>6.62</b>	<b>7.07</b>	<b>7.40</b>	<b>7.77</b>	<b>8.61</b>
150°	<b>3.90</b>	<b>4.93</b>	<b>5.87</b>	<b>6.66</b>	<b>7.07</b>	<b>7.38</b>	<b>8.10</b>
Run VMG	<b>3.38</b>	<b>4.27</b>	<b>5.09</b>	<b>5.86</b>	<b>6.49</b>	<b>6.95</b>	<b>7.58</b>
Gybe Angles	<b>145.8°</b>	<b>151.2°</b>	<b>150.3°</b>	<b>158.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>