



World Leader in Rating Technology

## 2017 ORC Club Certificate

### Rating Office

Žemaites 6  
LT-03117 Vilnius  
Lithuania  
+370 650 28392



### Certificate

Number **LT20**  
Issued On **2017-05-30**  
ORC Ref **lt00000113**  
VPP Ver. **2017 1.00**  
Valid until **2017-12-31**

### Crew Weight

Declared **430kg**  
Default\* **347kg**  
Non Manual Pwr **No**

### Special Scoring

ToD ToT  
Non Spin GPH **761.7 0.7877**  
Non Spin OSN **738.6 0.8123**

### Sails Limitations

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

### Spinnaker configuration

Symmetric: **Yes 36.12**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

CDL = **6.177**

### Stability (Estimated)

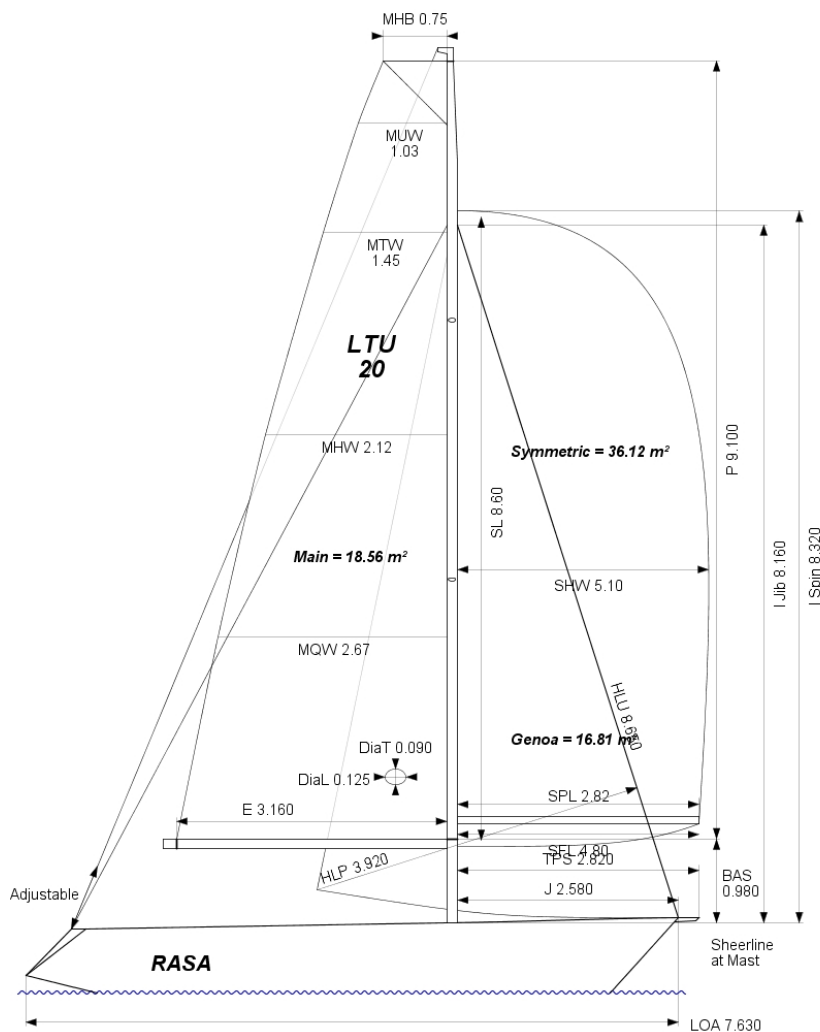
Limit Positive Stab.: **108.7°**  
Stability Index: **101.2**

### Owner

UAB "Lidoma"  
Gaono 10  
Vilnius  
LITHUANIA

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

Signature



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>		
Name <b>RASA</b> Sail Nr <b>LTU 20</b>		<b>740.5</b>		Data File <b>Rasa LTU20</b>	LOA <b>7.630m</b>	
				Offset File <b>C25_ST.OFF</b>	MB <b>2.756m</b>	
				Displacement <b>1,769kg</b>	Draft <b>1.548m</b>	
<b>CLASS</b>				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.046%</b>	
Class <b>Conrad 25RT</b>				Fwd Accom. <b>Yes</b>	Construction <b>Solid</b>	
Designer <b>Peterson</b>				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>	
Builder <b>Gdansk, Poland</b>				Crew Arm Ex	Carbon Rudder <b>No</b>	
Series <b>01-1978</b>				Light Stanchions		
Age Date <b>06-1985</b>				IMSL <b>6.292m</b>	VCGD <b>0.094m</b>	Sink <b>8.57kg/mm</b>
Age Allowance <b>0.487%</b>				RL <b>6.062m</b>	VCGM <b>0.068m</b>	WS <b>11.77m²</b>
				LSM0 <b>6.188m</b>	Displacement/Length ratio <b>7.4658</b>	
<b>COMMENTS</b>				Water Ballast <b>0</b> Trim Tab <b>No</b>		
<b>PROPELLER</b>				<b>CENTERBOARD</b>		
Type <b>No Propeller</b>				N/A		
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time On Distance	<b>720.3</b>			<b>798.0</b>		
Time On Time	<b>0.8330</b>			<b>0.8459</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>837.9</b>	<b>659.4</b>	<b>591.8</b>	<b>1076.2</b>	<b>800.9</b>	<b>705.7</b>
Time on Time	<b>0.8056</b>	<b>1.0236</b>	<b>1.1405</b>	<b>0.6272</b>	<b>0.8428</b>	<b>0.9565</b>

<b>BOAT</b>	
Name <b>RASA</b>	Sail Nr <b>LTU 20</b>
File <b>Rasa LTU20</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Club Estimated VCG</b>			
Flotation date		SG <b>1.0000</b>	
FFM <b>0.865</b>	FF <b>0.881</b>	SFFP <b>0.556</b>	
FAM <b>0.745</b>	FA <b>0.757</b>	SAFP <b>6.920</b>	
LCF from stem on CL / on sheer		<b>4.142 / 4.360</b>	
Maximum beam station from stem		<b>4.510</b>	
RM Measured		<b>30.0kg·m</b>	
RM Default		<b>29.1kg·m</b>	
Limit of positive stability / Stab.Index		<b>108.7° / 101.2</b>	
Freeboard at mast at 2.580		<b>0.817</b>	

<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>		
Inner Stay <b>None Fitted</b>	Runners <b>1</b>		
Carbon Mast <b>No</b>	Jumper Struts <b>None</b>		
Taper Hollows <b>Yes</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>9.100</b>	E <b>3.160</b>	MDT1 <b>0.090</b>	MW
IG <b>8.160</b>	J <b>2.580</b>	MDL1 <b>0.125</b>	GO
ISP <b>8.320</b>	SFJ	MDT2 <b>0.070</b>	BD
BAS <b>0.980</b>	SPL <b>2.820</b>	MDL2 <b>0.080</b>	MWT
FSP <b>0.040</b>	TPS <b>2.820</b>	TL <b>1.200</b>	MCG



World Leader in Rating Technology


## 2017 Measurements Datasheet

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

<b>PROPELLER</b>	
Type <b>No Propeller</b>	

**Certificate**

Number **LT20**  
 ORC Ref **k00000113**  
 Issued On **2017-05-30**  
 VPP Ver. **2017 1.00**  
 Valid until **2017-12-31**



<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS INVENTORY</b>																
<b>MANSAL (1)</b>																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M2	0.750	1.03	1.45	2.12	2.67	18.56	LTU#6	10-05-2012		Kevlar						
<b>HEADSAILS (3)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
J4	0.07	0.52	0.97	1.92	2.88	3.92	8.65	152%	16.81			LTU#6	10-05-2012		Unknow	
J5		0.49	0.96	1.91	2.89	3.88	8.60	150%	16.62			LTU#6	08-05-2013		Unknow	
J3						3.36	8.22	130%	14.06			V.Stankus	21-07-2011		Dacron	
<b>SYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
Spin4	8.60	8.60	8.60	5.10	4.80	36.12	LTU#6	10-05-2012		Unknown						
<b>ASYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				



World Leader in Rating Technology

# 2017

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>RASA</b>
Certificate Number	<b>LT20</b>
Sail Nr	<b>LTU 20</b>
Issued On	<b>2017-05-30</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1204.6</b>	<b>1016.3</b>	<b>910.0</b>	<b>857.7</b>	<b>837.5</b>	<b>828.9</b>	<b>835.4</b>
52°	<b>797.1</b>	<b>677.3</b>	<b>629.1</b>	<b>606.9</b>	<b>596.3</b>	<b>591.0</b>	<b>588.8</b>
60°	<b>754.3</b>	<b>651.2</b>	<b>613.3</b>	<b>591.9</b>	<b>577.1</b>	<b>569.7</b>	<b>565.0</b>
75°	<b>719.8</b>	<b>634.4</b>	<b>600.9</b>	<b>576.8</b>	<b>555.5</b>	<b>539.9</b>	<b>527.7</b>
90°	<b>721.9</b>	<b>633.3</b>	<b>593.9</b>	<b>562.5</b>	<b>543.4</b>	<b>529.8</b>	<b>501.9</b>
110°	<b>747.6</b>	<b>634.9</b>	<b>593.2</b>	<b>561.1</b>	<b>530.7</b>	<b>504.3</b>	<b>477.9</b>
120°	<b>774.6</b>	<b>648.1</b>	<b>600.7</b>	<b>569.3</b>	<b>539.0</b>	<b>511.6</b>	<b>465.1</b>
135°	<b>863.5</b>	<b>708.3</b>	<b>624.3</b>	<b>589.2</b>	<b>559.3</b>	<b>530.8</b>	<b>482.5</b>
150°	<b>1004.1</b>	<b>802.9</b>	<b>681.8</b>	<b>617.3</b>	<b>585.9</b>	<b>557.8</b>	<b>507.0</b>
Run VMG	<b>1159.5</b>	<b>924.2</b>	<b>780.2</b>	<b>677.9</b>	<b>621.7</b>	<b>590.0</b>	<b>536.8</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1182.0</b>	<b>970.3</b>	<b>845.0</b>	<b>767.8</b>	<b>729.6</b>	<b>709.4</b>	<b>686.1</b>
Circular Random	<b>1008.4</b>	<b>819.7</b>	<b>719.2</b>	<b>661.3</b>	<b>625.7</b>	<b>602.7</b>	<b>574.4</b>
Ocean for PCS	<b>1230.7</b>	<b>957.6</b>	<b>804.3</b>	<b>711.0</b>	<b>650.3</b>	<b>607.6</b>	<b>545.9</b>
Non Spinnaker	<b>1045.0</b>	<b>845.8</b>	<b>739.4</b>	<b>677.7</b>	<b>639.8</b>	<b>615.3</b>	<b>585.7</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>42.1°</b>	<b>41.7°</b>	<b>40.8°</b>	<b>39.4°</b>	<b>38.6°</b>	<b>38.3°</b>	<b>39.1°</b>
Beat VMG	<b>2.99</b>	<b>3.54</b>	<b>3.96</b>	<b>4.20</b>	<b>4.30</b>	<b>4.34</b>	<b>4.31</b>
52°	<b>4.52</b>	<b>5.32</b>	<b>5.72</b>	<b>5.93</b>	<b>6.04</b>	<b>6.09</b>	<b>6.11</b>
60°	<b>4.77</b>	<b>5.53</b>	<b>5.87</b>	<b>6.08</b>	<b>6.24</b>	<b>6.32</b>	<b>6.37</b>
75°	<b>5.00</b>	<b>5.67</b>	<b>5.99</b>	<b>6.24</b>	<b>6.48</b>	<b>6.67</b>	<b>6.82</b>
90°	<b>4.99</b>	<b>5.68</b>	<b>6.06</b>	<b>6.40</b>	<b>6.63</b>	<b>6.79</b>	<b>7.17</b>
110°	<b>4.82</b>	<b>5.67</b>	<b>6.07</b>	<b>6.42</b>	<b>6.78</b>	<b>7.14</b>	<b>7.53</b>
120°	<b>4.65</b>	<b>5.55</b>	<b>5.99</b>	<b>6.32</b>	<b>6.68</b>	<b>7.04</b>	<b>7.74</b>
135°	<b>4.17</b>	<b>5.08</b>	<b>5.77</b>	<b>6.11</b>	<b>6.44</b>	<b>6.78</b>	<b>7.46</b>
150°	<b>3.59</b>	<b>4.48</b>	<b>5.28</b>	<b>5.83</b>	<b>6.14</b>	<b>6.45</b>	<b>7.10</b>
Run VMG	<b>3.10</b>	<b>3.90</b>	<b>4.61</b>	<b>5.31</b>	<b>5.79</b>	<b>6.10</b>	<b>6.71</b>
Gybe Angles	<b>149.5°</b>	<b>154.2°</b>	<b>154.9°</b>	<b>174.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>