



World Leader in Rating Technology

## 2018 ORC Club Certificate

### Rating Office

Žemaites 6  
LT-03117 Vilnius  
Lithuania  
+370 650 28392



### Certificate

Number **LT2572**  
Issued On **2018-07-23**  
ORC Ref **lt00000682**  
VPP Ver. **2018 0.02b**  
Valid until **2018-12-31**

### Crew Weight

Declared **350kg**  
Default\* **430kg**  
Non Manual Pwr **No**

### Special Scoring

ToD ToT  
Non Spin GPH **676,3 0,8872**  
Non Spin OSN **654,0 0,9174**

### Sails Limitations

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

### Spinnaker configuration

Symmetric: **No**  
Asymmetric: **Yes 56,18**  
Flying H/S: **No**  
Spin. Pole: **No**

### Class Division Length

CDL = **7,587**

### Stability (Estimated)

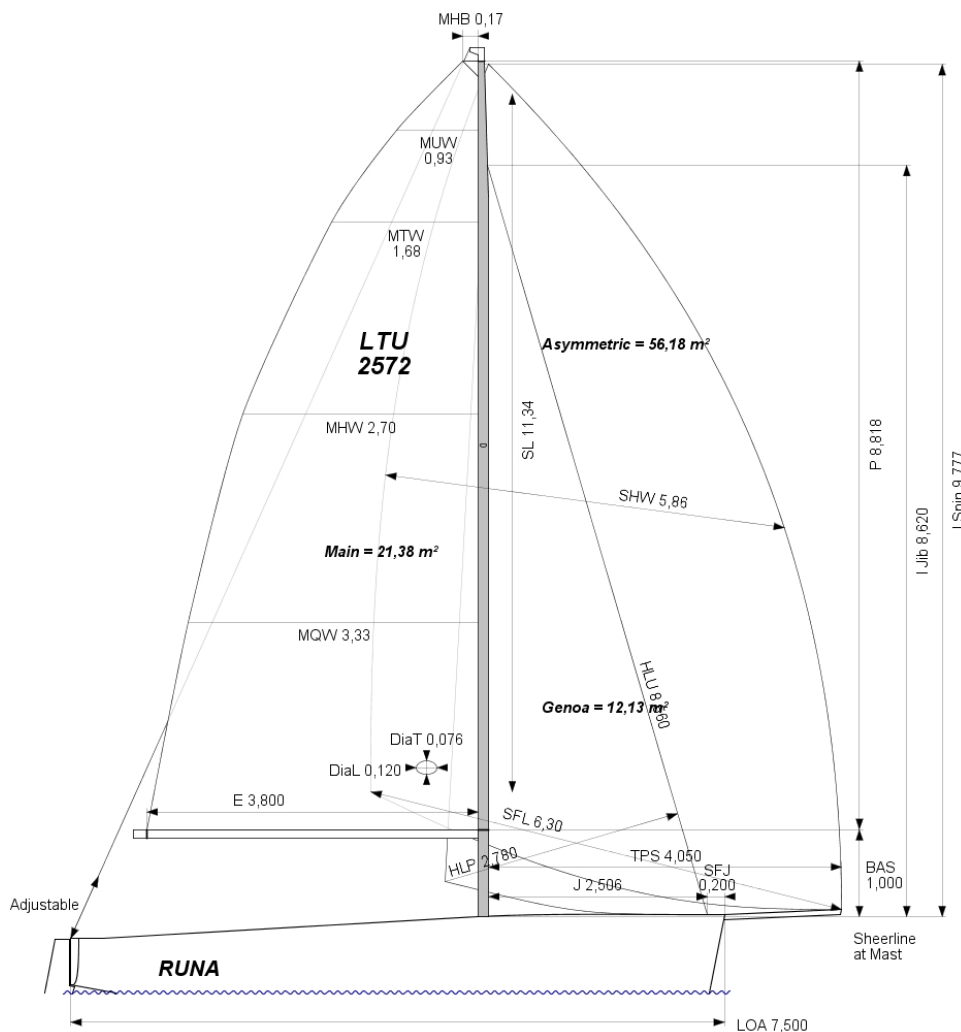
Limit Positive Stab.: **120,8°**  
Stability Index: **112,5**

### Owner

Simonas Kunickas  
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>RUNA</b> Sail Nr <b>LTU 2572</b>		<b>627,8</b>		Data File <b>Runa LTU2572</b>	LOA <b>7,500m</b>	
				Offset File <b>MELGES24a.OFF</b>	MB <b>2,442m</b>	
				Displacement <b>839kg</b>	Draft <b>1,562m</b>	
<b>CLASS</b>						
Class <b>MELGES 24</b>						
Designer <b>Reichel/Pugh</b>						
Builder <b>Devoti Sailing LTD</b>						
Series <b>12-1992</b>						
Age Date <b>12-1994</b>						
Age Allowance <b>0,487%</b>						
<b>COMMENTS</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>608,8</b>			<b>692,6</b>		
Time On Time	<b>0,9856</b>			<b>0,9746</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>721,2</b>	<b>559,2</b>	<b>476,5</b>	<b>927,5</b>	<b>698,7</b>	<b>595,5</b>
Time on Time	<b>0,9359</b>	<b>1,2071</b>	<b>1,4166</b>	<b>0,7278</b>	<b>0,9661</b>	<b>1,1335</b>

<b>BOAT</b>	
Name <b>RUNA</b>	Sail Nr <b>LTU 2572</b>
File <b>Runa LTU2572</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Club Estimated VCG</b>			
Flotation date <b>27-01-2016</b>		SG <b>1,0010</b>	
FFM <b>0,889</b>	FF <b>0,895</b>	SFFP <b>0,130</b>	
FAM <b>0,601</b>	FA <b>0,602</b>	SAFP <b>7,390</b>	
LCF from stem on CL / on sheer		<b>4,229 / 4,376</b>	
Maximum beam station from stem		<b>4,790</b>	
RM Measured		<b>27,3kg·m</b>	
RM Default		<b>26,5kg·m</b>	
Limit of positive stability / Stab.Index		<b>120,8° / 112,5</b>	
Freeboard at mast at 2,706		<b>0,871</b>	

<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>1</b>		
Inner Stay <b>None Fitted</b>	Runners <b>0</b>		
Carbon Mast <b>Yes</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>8,818</b>	E <b>3,800</b>	MDT1 <b>0,076</b>	MW <b>0,114</b>
IG <b>8,620</b>	J <b>2,506</b>	MDL1 <b>0,120</b>	GO <b>0,114</b>
ISP <b>9,777</b>	SFJ <b>0,200</b>	MDT2 <b>0,062</b>	BD <b>0,103</b>
BAS <b>1,000</b>	SPL <b>0,075</b>	MDL2 <b>0,075</b>	MWT <b>28,00</b>
FSP <b>0,000</b>	TPS <b>4,050</b>	TL <b>1,578</b>	MCG <b>3,150</b>



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## 2018 Measurements Datasheet

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

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

<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					
M	0,175	0,93	1,68	2,70	3,33	21,38	OD				CLASS RULES &					
<b>HEADSAILS (1)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
H	0,05	0,40	0,76	1,42	2,09	2,78	8,56	111%	12,14			OD				CLASS RULES
<b>SYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
<b>ASYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
A	11,59	11,08	11,34	5,86	6,30	56,18	asym	OD				CLASS RULES & MEAS				

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date				
Comment				
Id	Item	Weight	Distance	VCG Description
a4	Anchor	5,0	2,00	
Id	Item	Maker	Model	
1	Engine	MIN 12kg	OUTBOARD	
Id	Item	Weight	Description	

<b>MEASUREMENT INVENTORY</b>				
Id	Item	Weight	Distance	VCG Description



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# 2018

## ORC Club Certificate Appendix

BOAT	
Name	<b>RUNA</b>
Certificate Number	<b>LT2572</b>
Sail Nr	<b>LTU 2572</b>
Issued On	<b>2018-07-23</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1078,4</b>	<b>877,9</b>	<b>781,0</b>	<b>754,1</b>	<b>745,8</b>	<b>741,9</b>	<b>741,2</b>
52°	<b>706,0</b>	<b>596,4</b>	<b>556,3</b>	<b>538,1</b>	<b>529,4</b>	<b>525,2</b>	<b>512,1</b>
60°	<b>666,7</b>	<b>579,6</b>	<b>539,0</b>	<b>511,6</b>	<b>500,2</b>	<b>494,5</b>	<b>478,1</b>
75°	<b>638,6</b>	<b>567,9</b>	<b>522,6</b>	<b>477,8</b>	<b>455,8</b>	<b>444,9</b>	<b>429,2</b>
90°	<b>626,7</b>	<b>548,5</b>	<b>514,5</b>	<b>473,6</b>	<b>427,1</b>	<b>401,2</b>	<b>380,7</b>
110°	<b>617,6</b>	<b>537,4</b>	<b>474,0</b>	<b>438,6</b>	<b>409,5</b>	<b>384,0</b>	<b>331,2</b>
120°	<b>633,7</b>	<b>547,3</b>	<b>481,7</b>	<b>421,5</b>	<b>386,9</b>	<b>361,3</b>	<b>308,2</b>
135°	<b>714,7</b>	<b>583,1</b>	<b>520,8</b>	<b>460,4</b>	<b>400,7</b>	<b>349,0</b>	<b>265,6</b>
150°	<b>848,4</b>	<b>670,3</b>	<b>580,4</b>	<b>525,9</b>	<b>470,0</b>	<b>415,7</b>	<b>306,4</b>
Run VMG	<b>979,7</b>	<b>773,9</b>	<b>670,3</b>	<b>607,2</b>	<b>542,8</b>	<b>480,0</b>	<b>353,8</b>

Selected Courses							
Windward / Leeward	<b>1029,1</b>	<b>825,9</b>	<b>725,7</b>	<b>680,6</b>	<b>644,3</b>	<b>610,9</b>	<b>547,5</b>
Circular Random	<b>867,0</b>	<b>700,7</b>	<b>610,2</b>	<b>554,9</b>	<b>517,0</b>	<b>487,9</b>	<b>441,4</b>
Ocean for PCS	<b>1061,4</b>	<b>819,9</b>	<b>682,7</b>	<b>595,7</b>	<b>534,5</b>	<b>486,8</b>	<b>411,8</b>
Non Spinnaker	<b>949,2</b>	<b>759,4</b>	<b>655,7</b>	<b>593,2</b>	<b>552,1</b>	<b>522,4</b>	<b>477,8</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>43,0°</b>	<b>41,6°</b>	<b>38,4°</b>	<b>37,0°</b>	<b>36,7°</b>	<b>36,8°</b>	<b>37,6°</b>
Beat VMG	<b>3,34</b>	<b>4,10</b>	<b>4,61</b>	<b>4,77</b>	<b>4,83</b>	<b>4,85</b>	<b>4,86</b>
52°	<b>5,10</b>	<b>6,04</b>	<b>6,47</b>	<b>6,69</b>	<b>6,80</b>	<b>6,85</b>	<b>7,03</b>
60°	<b>5,40</b>	<b>6,21</b>	<b>6,68</b>	<b>7,04</b>	<b>7,20</b>	<b>7,28</b>	<b>7,53</b>
75°	<b>5,64</b>	<b>6,34</b>	<b>6,89</b>	<b>7,54</b>	<b>7,90</b>	<b>8,09</b>	<b>8,39</b>
90°	<b>5,74</b>	<b>6,56</b>	<b>7,00</b>	<b>7,60</b>	<b>8,43</b>	<b>8,97</b>	<b>9,46</b>
110°	<b>5,83</b>	<b>6,70</b>	<b>7,60</b>	<b>8,21</b>	<b>8,79</b>	<b>9,37</b>	<b>10,87</b>
120°	<b>5,68</b>	<b>6,58</b>	<b>7,47</b>	<b>8,54</b>	<b>9,30</b>	<b>9,96</b>	<b>11,68</b>
135°	<b>5,04</b>	<b>6,17</b>	<b>6,91</b>	<b>7,82</b>	<b>8,98</b>	<b>10,32</b>	<b>13,55</b>
150°	<b>4,24</b>	<b>5,37</b>	<b>6,20</b>	<b>6,85</b>	<b>7,66</b>	<b>8,66</b>	<b>11,75</b>
Run VMG	<b>3,67</b>	<b>4,65</b>	<b>5,37</b>	<b>5,93</b>	<b>6,63</b>	<b>7,50</b>	<b>10,18</b>
Gybe Angles	<b>143,6°</b>	<b>147,1°</b>	<b>150,3°</b>	<b>148,2°</b>	<b>144,8°</b>	<b>144,3°</b>	<b>139,7°</b>