



World Leader in Rating Technology

## 2018 ORC Club Certificate

### Rating Office

EYU  
Regati 1  
11911, Tallinn  
Estonia

### Certificate

Number **EST599**  
Issued On **5/25/2018**  
ORC Ref **EST00000122**  
VPP Ver. **2018 1.00**  
Valid until **12/31/2018**

### Crew Weight

Default 1,069kg  
Maximum **950kg**  
Minimum\* **713kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Double H.GPH	<b>552.5</b>	<b>1.0859</b>
Double H.OSN	<b>538.1</b>	<b>1.1151</b>
Non Spin GPH	<b>583.0</b>	<b>1.0292</b>
Non Spin OSN	<b>567.1</b>	<b>1.0579</b>

### Sails Limitations

Headsails **7** Spinnakers **5**

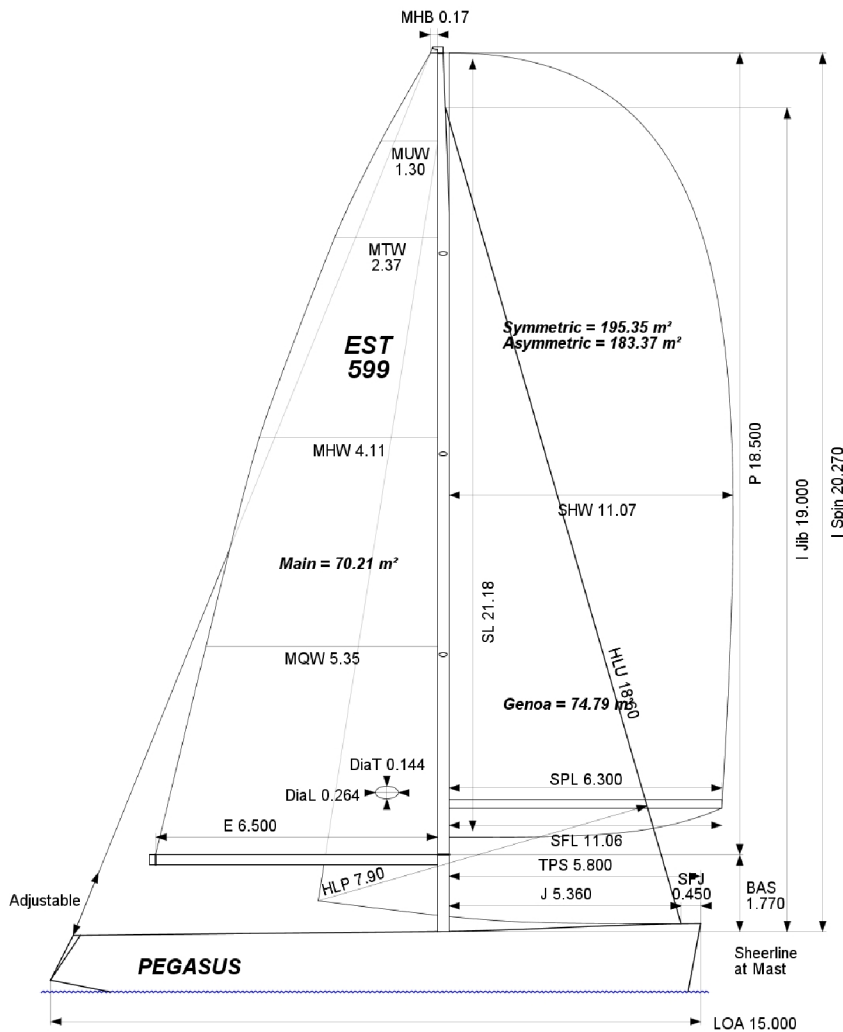
**Spinnaker configuration**  
Symmetric: **Yes** **195.35**  
Asymmetric: **Yes** **183.37**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

**CDL = 12.222**

### Stability (Estimated)

Limit Positive Stab.: **126.5°**  
Stability Index: **135.6**



BOAT	GPH	HULL
Name <b>PEGASUS</b> Sail Nr <b>EST 599</b>	<b>551.3</b>	Data File <b>Est0599</b> LOA <b>15.000m</b> Offset File <b>F_50SK.OFF</b> MB <b>4.374m</b> Displacement <b>14,548kg</b> Draft <b>2.421m</b>
CLASS		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.143%</b> Fwd Accom. <b>Yes</b> Construction <b>Solid</b> Fiber Rigging <b>No</b> Aramid Core <b>No</b> Crew Arm Ex Carbon Rudder <b>No</b> Light Stanchions
Class <b>First 50 (SK)</b> Designer <b>Philippe Briand</b> Builder <b>Beneteau</b> Series <b>09/2006</b> Age Date <b>06/2008</b> Age Allowance <b>0.390%</b>		IMSL <b>13.630m</b> VCGD <b>-0.111m</b> Sink <b>33.91kg/mm</b> RL <b>10.813m</b> VCGM <b>-0.131m</b> WS <b>47.10m²</b> LSM0 <b>13.611m</b> Displacement/Length ratio <b>5.7694</b>
COMMENTS		Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>
PROPELLER	Installation <b>Strut</b> PRD <b>0.460</b> Type <b>Folding 2 blades</b> PIPA <b>0.0040</b>	CENTERBOARD
		<b>N/A</b>
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	<b>535.8</b>	<b>601.2</b>
Time on Time	<b>1.1198</b>	<b>1.1227</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>639.1</b> <b>486.1</b> <b>431.8</b>	<b>829.6</b> <b>605.4</b> <b>520.4</b>
Time on Time	<b>1.0561</b> <b>1.3886</b> <b>1.5632</b>	<b>0.8136</b> <b>1.1149</b> <b>1.2972</b>

<b>BOAT</b>	
Name <b>PEGASUS</b>	Sail Nr <b>EST 599</b>
File <b>Est0599</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Club Estimated VCG</b>			
Flotation date <b>18/06/2009</b>		SG	
FFM	FF	1.578	SFFP 0.250
FAM	FA	1.312	SAFP 14.314
LCF from stem on CL / on sheer		8.079 / 8.342	
Maximum beam station from stem		9.750	
RM Measured		395.5kg·m	
RM Default		383.9kg·m	
Limit of positive stability / Stab.Index		126.5° / 135.6	
Freeboard at mast at 5.810		1.398	



**2018**  
Measurements  
Datasheet

<b>RIG</b>					
Forestay Tension	<b>Aft</b>	Spreaders	<b>3</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	18.500	E	6.500	MDT1	0.144
IG	19.000	J	5.360	MDL1	0.264
ISP	20.270	SFJ	0.450	MDT2	0.000
BAS	1.770	SPL	6.300	MDL2	0.000
FSP	-3.000	TPS	5.800	TL	-2.000
				MW	0.000
				GO	0.000
				BD	
				MWT	
				MCG	

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

<b>PROPELLER</b>			
Installation	<b>Strut</b>	PRD	0.460
Type	<b>Folding 2 blades</b>	PBW	
Twin Screw	<b>No</b>	PIPA	0.0040
ST1	0.050	ST3	0.180
ST2	0.180	ST4	0.112
		ST5	0.310
		EDL	3.740

<b>COMMENTS</b>	

<b>MOVABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

<b>SAILS INVENTORY</b>																	
<b>MAINSAIL (1)</b>																	
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment						
1	0.170	1.30	2.37	4.11	5.35	70.21											
<b>HEADSAILS (3)</b>																	
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment	
4						7.90	18.60	147%	74.80							Unknow	G1
5						7.25	18.60	135%	68.65							Unknow	G2
6						5.80	18.70	108%	55.21							Unknow	G3
<b>SYMMETRIC SPINNAKERS (1)</b>																	
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment						
2	21.18	21.18	21.18	11.07	11.06	195.35				Unknown	S2						
<b>ASYMMETRIC SPINNAKERS (2)</b>																	
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment					
2	20.65	20.65	20.65	10.68	10.56	183.37	asym				Unknown	MH A1,5					
3	20.43	20.30	20.37	9.85	11.16	171.61	asym				Unknown	MH A3					



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## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>PEGASUS</b>	Certificate Number	<b>EST599</b>
Sail Nr	<b>EST 599</b>	Issued On	<b>5/25/2018</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>948.1</b>	<b>778.0</b>	<b>685.9</b>	<b>642.2</b>	<b>620.5</b>	<b>609.4</b>	<b>601.7</b>
52°	<b>614.5</b>	<b>512.1</b>	<b>458.4</b>	<b>437.4</b>	<b>429.1</b>	<b>424.7</b>	<b>421.4</b>
60°	<b>578.3</b>	<b>485.1</b>	<b>441.8</b>	<b>424.4</b>	<b>416.7</b>	<b>412.5</b>	<b>408.8</b>
75°	<b>551.5</b>	<b>466.4</b>	<b>430.6</b>	<b>414.2</b>	<b>403.6</b>	<b>396.5</b>	<b>389.1</b>
90°	<b>555.8</b>	<b>468.5</b>	<b>429.4</b>	<b>411.0</b>	<b>398.2</b>	<b>387.1</b>	<b>368.9</b>
110°	<b>572.1</b>	<b>466.8</b>	<b>422.1</b>	<b>402.0</b>	<b>386.7</b>	<b>376.7</b>	<b>359.2</b>
120°	<b>586.9</b>	<b>478.3</b>	<b>427.0</b>	<b>403.7</b>	<b>385.4</b>	<b>368.2</b>	<b>344.1</b>
135°	<b>648.9</b>	<b>522.4</b>	<b>450.0</b>	<b>417.1</b>	<b>397.2</b>	<b>377.9</b>	<b>339.9</b>
150°	<b>767.1</b>	<b>612.0</b>	<b>514.2</b>	<b>451.6</b>	<b>419.8</b>	<b>400.6</b>	<b>364.7</b>
Run VMG	<b>885.8</b>	<b>706.7</b>	<b>593.7</b>	<b>519.2</b>	<b>473.5</b>	<b>438.3</b>	<b>396.4</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>916.9</b>	<b>742.4</b>	<b>639.8</b>	<b>580.7</b>	<b>547.0</b>	<b>523.9</b>	<b>499.1</b>
Circular Random	<b>765.2</b>	<b>615.1</b>	<b>534.3</b>	<b>487.5</b>	<b>458.8</b>	<b>440.3</b>	<b>417.6</b>
Coastal / Long Distance	<b>913.8</b>	<b>696.1</b>	<b>573.8</b>	<b>503.6</b>	<b>467.4</b>	<b>440.0</b>	<b>398.3</b>
Non Spinnaker	<b>821.7</b>	<b>655.4</b>	<b>564.4</b>	<b>510.5</b>	<b>476.9</b>	<b>455.0</b>	<b>427.9</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>44.0°</b>	<b>42.4°</b>	<b>42.0°</b>	<b>41.1°</b>	<b>40.2°</b>	<b>39.6°</b>	<b>39.1°</b>
Beat VMG	<b>3.80</b>	<b>4.63</b>	<b>5.25</b>	<b>5.61</b>	<b>5.80</b>	<b>5.91</b>	<b>5.98</b>
52°	<b>5.86</b>	<b>7.03</b>	<b>7.85</b>	<b>8.23</b>	<b>8.39</b>	<b>8.48</b>	<b>8.54</b>
60°	<b>6.23</b>	<b>7.42</b>	<b>8.15</b>	<b>8.48</b>	<b>8.64</b>	<b>8.73</b>	<b>8.81</b>
75°	<b>6.53</b>	<b>7.72</b>	<b>8.36</b>	<b>8.69</b>	<b>8.92</b>	<b>9.08</b>	<b>9.25</b>
90°	<b>6.48</b>	<b>7.68</b>	<b>8.38</b>	<b>8.76</b>	<b>9.04</b>	<b>9.30</b>	<b>9.76</b>
110°	<b>6.29</b>	<b>7.71</b>	<b>8.53</b>	<b>8.96</b>	<b>9.31</b>	<b>9.56</b>	<b>10.02</b>
120°	<b>6.13</b>	<b>7.53</b>	<b>8.43</b>	<b>8.92</b>	<b>9.34</b>	<b>9.78</b>	<b>10.46</b>
135°	<b>5.55</b>	<b>6.89</b>	<b>8.00</b>	<b>8.63</b>	<b>9.06</b>	<b>9.53</b>	<b>10.59</b>
150°	<b>4.69</b>	<b>5.88</b>	<b>7.00</b>	<b>7.97</b>	<b>8.58</b>	<b>8.99</b>	<b>9.87</b>
Run VMG	<b>4.06</b>	<b>5.09</b>	<b>6.06</b>	<b>6.93</b>	<b>7.60</b>	<b>8.21</b>	<b>9.08</b>
Gybe Angles	<b>141.9°</b>	<b>147.3°</b>	<b>147.6°</b>	<b>152.8°</b>	<b>159.1°</b>	<b>180.0°</b>	<b>180.0°</b>