



World Leader in Rating Technology

## 2009 ORC Club Certificate

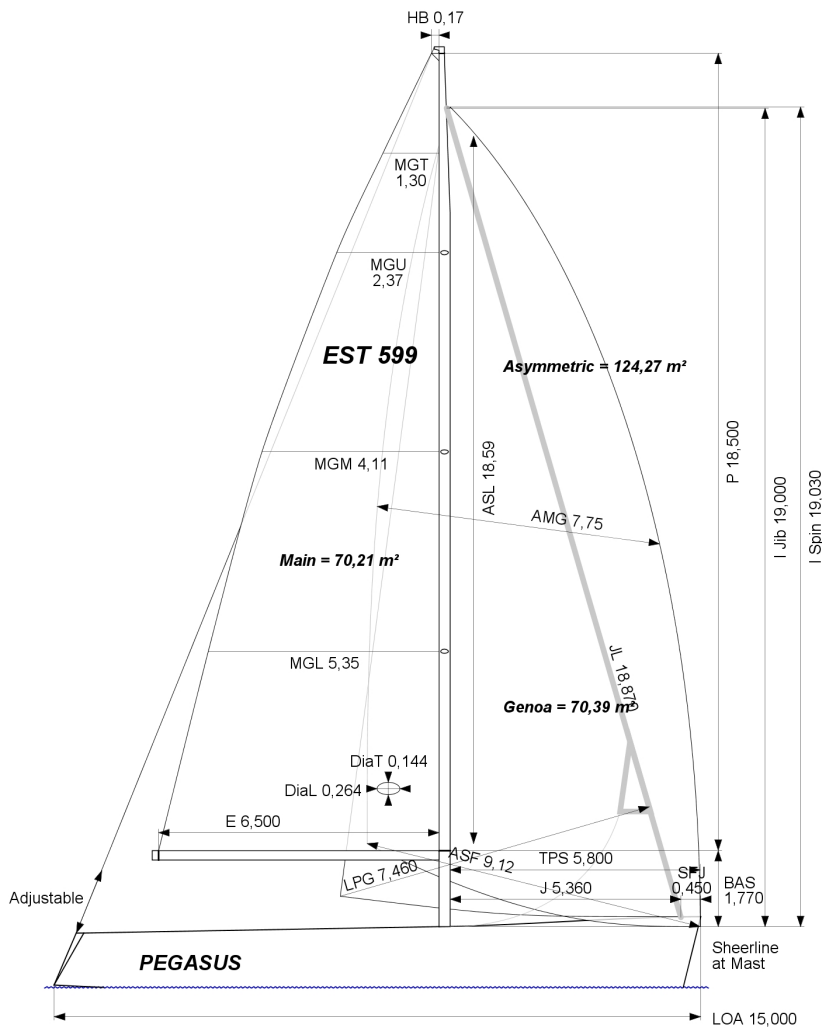
### Rating Office

Estonian Yachting Union  
Veiko Rosme  
Regati 1, 11911, Tallinn  
Estonia

### Certificate

Number **EST599**  
Issued On **18.06.2009**  
ORC Ref **EST00000398**  
VPP Ver. **1.11**  
Valid until **31.12.2009**

### Comments



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>	
Name <b>PEGASUS</b> Sail Nr <b>EST 599</b>		<b>575,1</b>		Data File <b>Est0599.dxt</b>	LOA <b>15,000 m</b>
				Offset File <b>F_50SK.OFF</b>	MB <b>4,377 m</b>
				Displacement <b>14 745 kg</b>	Draft <b>2,418 m</b>
<b>CLASS</b>		<b>IMS Regulations Division</b>			
Class <b>First 50 (SK)</b>		<b>Cruiser/Racer</b>			
Designer <b>Philippe Briand</b>		Dynamic Allowance <b>0,852%</b>			
Builder <b>Beneteau</b>		Forward Accommodation <b>Yes</b>			
Series <b>09.2006</b>		Hull Construction <b>Solid</b>			
Age Date <b>06.2008</b>		Carbon Mast <b>No</b>			
Age Allowance <b>0,195%</b>		Carbon Rudder <b>No</b>			
<b>HEAVY ITEMS</b>		<b>IMS L 13,865 Wetted Area 47,55 m² VCGM -0,040</b>			
Bow Thruster <b>No</b>	Generator <b>No</b>	Air Condition <b>No</b>			
Windlass <b>No</b>	Jib Furler <b>Yes</b>	Desalinator <b>No</b>			
Heavy Deck <b>No</b>	Main Furler <b>No</b>				
Headliners <b>No</b>	Water Heater <b>No</b>				
Anchor Weight	Heavy Items Adjustment	<b>0,0005</b>			
Anchor LCG	Total Gyradius Adjustment	<b>0,0325</b>			
<b>PROPELLER</b>					
Installation <b>Strut Drive</b>		PRD <b>0,430</b>			
Type <b>Folding</b>					

### Crew Weight

Declared **700 kg**  
Default\* **1 068**

### Special Scoring

ToD ToT  
Double **575,5 1,0425**  
Non Spinnaker **602,8 0,9953**

### Sails Limitations

Genoas **1** Spinnakers **4**  
Jibs **0**

### Spinnaker configuration

Symmetric: **No**  
Asymmetric: **Yes 124,27**  
Code Zero: **No**  
Spin. Pole: **No**

### Stability

LPS (Estimated): **122,4°**  
Stability Index: **131,7**  
OSR Category: **0**

### Owner

DEMI GROUP OÜ  
Kungla 7-34, Rakvere  
Estonia

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

Signature

SCORING OPTIONS	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	<b>575,1</b>			<b>646,4</b>		
Time On Time	<b>1,0433</b>			<b>1,0442</b>		
Performance Line	<b>0,835</b>	<b>56,3</b>		<b>0,929</b>	<b>197,3</b>	
Triple Number	Low <b>0,9932</b>	Medium <b>1,3384</b>	High <b>1,5451</b>	Low <b>0,7399</b>	Medium <b>1,0446</b>	High <b>1,2641</b>



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# 2009

## ORC Club Certificate Appendix

### BOAT

Name	<b>PEGASUS</b>	Certificate Number	<b>EST599</b>
Sail Nr	<b>EST 599</b>	Issued On	<b>18.06.2009</b>

### TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1011,4</b>	<b>816,2</b>	<b>713,2</b>	<b>661,7</b>	<b>631,4</b>	<b>612,4</b>	<b>593,6</b>
52°	<b>637,6</b>	<b>518,8</b>	<b>465,7</b>	<b>442,5</b>	<b>428,9</b>	<b>420,3</b>	<b>411,8</b>
60°	<b>584,7</b>	<b>484,1</b>	<b>442,4</b>	<b>420,7</b>	<b>410,0</b>	<b>403,4</b>	<b>396,5</b>
75°	<b>541,5</b>	<b>460,3</b>	<b>424,4</b>	<b>403,0</b>	<b>390,5</b>	<b>383,5</b>	<b>375,1</b>
90°	<b>545,3</b>	<b>457,0</b>	<b>417,4</b>	<b>395,9</b>	<b>383,3</b>	<b>376,8</b>	<b>358,9</b>
110°	<b>569,4</b>	<b>471,5</b>	<b>429,9</b>	<b>404,1</b>	<b>386,6</b>	<b>370,1</b>	<b>344,0</b>
120°	<b>614,3</b>	<b>497,5</b>	<b>445,4</b>	<b>415,0</b>	<b>395,3</b>	<b>379,2</b>	<b>346,9</b>
135°	<b>730,2</b>	<b>574,4</b>	<b>487,3</b>	<b>444,1</b>	<b>416,6</b>	<b>398,1</b>	<b>368,6</b>
150°	<b>888,0</b>	<b>689,4</b>	<b>576,1</b>	<b>499,3</b>	<b>454,2</b>	<b>425,3</b>	<b>389,8</b>
Run VMG	<b>1025,4</b>	<b>796,0</b>	<b>665,2</b>	<b>576,2</b>	<b>512,6</b>	<b>466,5</b>	<b>412,7</b>

### Selected Courses

Windward / Leeward	<b>1035,5</b>	<b>818,8</b>	<b>699,2</b>	<b>626,7</b>	<b>578,8</b>	<b>545,7</b>	<b>508,8</b>
Circular Random	<b>811,8</b>	<b>646,9</b>	<b>556,8</b>	<b>503,3</b>	<b>469,6</b>	<b>447,1</b>	<b>418,6</b>
Ocean for PCS	<b>871,1</b>	<b>678,4</b>	<b>569,6</b>	<b>502,4</b>	<b>458,1</b>	<b>426,8</b>	<b>383,8</b>
Non Spinnaker	<b>864,2</b>	<b>683,1</b>	<b>582,8</b>	<b>522,6</b>	<b>484,3</b>	<b>459,0</b>	<b>427,9</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>46,1°</b>	<b>45,1°</b>	<b>44,0°</b>	<b>41,6°</b>	<b>40,1°</b>	<b>39,2°</b>	<b>38,4°</b>
Beat VMG	<b>3,56</b>	<b>4,41</b>	<b>5,05</b>	<b>5,44</b>	<b>5,70</b>	<b>5,88</b>	<b>6,06</b>
52°	<b>5,65</b>	<b>6,94</b>	<b>7,73</b>	<b>8,14</b>	<b>8,39</b>	<b>8,56</b>	<b>8,74</b>
60°	<b>6,16</b>	<b>7,44</b>	<b>8,14</b>	<b>8,56</b>	<b>8,78</b>	<b>8,92</b>	<b>9,08</b>
75°	<b>6,65</b>	<b>7,82</b>	<b>8,48</b>	<b>8,93</b>	<b>9,22</b>	<b>9,39</b>	<b>9,60</b>
90°	<b>6,60</b>	<b>7,88</b>	<b>8,62</b>	<b>9,09</b>	<b>9,39</b>	<b>9,55</b>	<b>10,03</b>
110°	<b>6,32</b>	<b>7,63</b>	<b>8,37</b>	<b>8,91</b>	<b>9,31</b>	<b>9,73</b>	<b>10,47</b>
120°	<b>5,86</b>	<b>7,24</b>	<b>8,08</b>	<b>8,68</b>	<b>9,11</b>	<b>9,49</b>	<b>10,38</b>
135°	<b>4,93</b>	<b>6,27</b>	<b>7,39</b>	<b>8,11</b>	<b>8,64</b>	<b>9,04</b>	<b>9,77</b>
150°	<b>4,05</b>	<b>5,22</b>	<b>6,25</b>	<b>7,21</b>	<b>7,93</b>	<b>8,47</b>	<b>9,24</b>
Run VMG	<b>3,51</b>	<b>4,52</b>	<b>5,41</b>	<b>6,25</b>	<b>7,02</b>	<b>7,72</b>	<b>8,72</b>
Gybe Angles	<b>139,0°</b>	<b>142,0°</b>	<b>144,9°</b>	<b>151,5°</b>	<b>165,4°</b>	<b>176,7°</b>	<b>179,2°</b>