



World Leader in Rating Technology

## 2017 ORC Club Certificate

### Rating Office

EYU  
Regati 1  
11911, Tallinn  
Estonia

### Certificate

Number **EST571**  
Issued On **31.05.2017**  
ORC Ref **EST00001369**  
VPP Ver. **2017 1.00**  
Valid until **31.12.2017**

### Crew Weight

Declared **700kg**  
Default\* **649kg**  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Double H.GPH	639,0	0,9389
Double H.OSN	622,1	0,9645
Non Spin GPH	666,2	0,9006
Non Spin OSN	645,6	0,9294

### Sails Limitations

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

### Spinnaker configuration

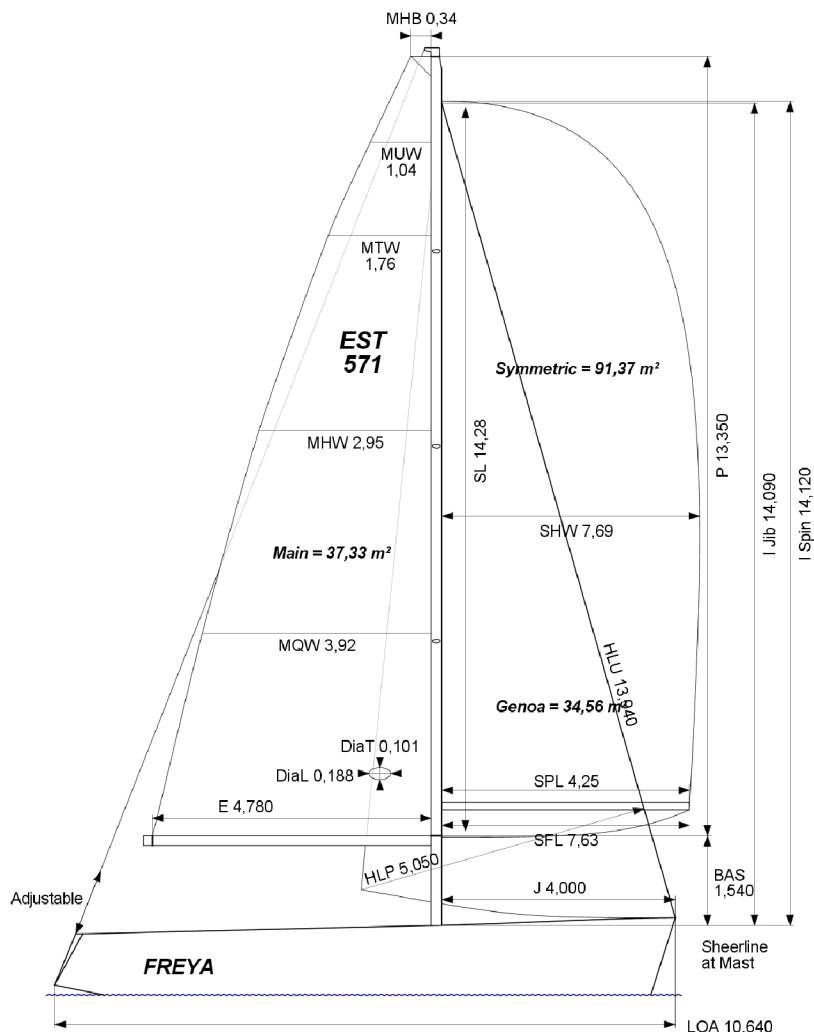
Symmetric: **Yes** 91,37  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

CDL = **8,973**

### Stability (Measured)

Limit Positive Stab.: **113,4°**  
Stability Index: **115,8**



BOAT	GPH	HULL
Name <b>FREYA</b> Sail Nr <b>EST 571</b>	<b>636,6</b>	Data File <b>Est0571</b> LOA <b>10,640m</b> Offset File <b>F196.BOF</b> MB <b>3,458m</b> Displacement <b>5 792kg</b> Draft <b>2,233m</b>
<b>CLASS</b> Class <b>First 36.7</b> Designer <b>B.Farr</b> Builder <b>Beneteau S.A</b> Series <b>01.2001</b> Age Date <b>07.2008</b> Age Allowance <b>0,487%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0,191%</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
<b>COMMENTS</b>		IMSL <b>9,630m</b> VCGD <b>0,136m</b> Sink <b>19,45kg/mm</b> RL <b>8,314m</b> VCGM <b>0,114m</b> WS <b>25,46m²</b> LSM0 <b>9,595m</b> Displacement/Length ratio <b>6,5568</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0,410</b> Type <b>Folding 2 blades</b> PBW <b>0,130</b> PIPA <b>0,0027</b>		Water Ballast <b>0</b> Trim Tab <b>No</b>
		<b>CENTERBOARD</b> N/A

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	<b>617,8</b>			<b>688,1</b>		
Time On Time	<b>0,9712</b>			<b>0,9810</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>734,2</b>	<b>563,0</b>	<b>498,6</b>	<b>950,8</b>	<b>694,3</b>	<b>594,6</b>
Time on Time	<b>0,9194</b>	<b>1,1989</b>	<b>1,3537</b>	<b>0,7099</b>	<b>0,9722</b>	<b>1,1353</b>



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# 2017

## ORC Club Certificate Appendix

BOAT	
Name	<b>FREYA</b>
Certificate Number	<b>EST571</b>
Sail Nr	<b>EST 571</b>
Issued On	<b>31.05.2017</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1086,4</b>	<b>904,0</b>	<b>799,3</b>	<b>732,3</b>	<b>705,9</b>	<b>693,3</b>	<b>685,8</b>
52°	<b>709,8</b>	<b>597,7</b>	<b>536,3</b>	<b>508,8</b>	<b>497,9</b>	<b>493,0</b>	<b>489,5</b>
60°	<b>668,4</b>	<b>565,3</b>	<b>518,1</b>	<b>496,1</b>	<b>484,2</b>	<b>478,9</b>	<b>474,6</b>
75°	<b>634,6</b>	<b>542,2</b>	<b>505,4</b>	<b>485,4</b>	<b>469,4</b>	<b>457,2</b>	<b>447,5</b>
90°	<b>635,3</b>	<b>541,6</b>	<b>497,8</b>	<b>480,4</b>	<b>466,7</b>	<b>450,2</b>	<b>423,8</b>
110°	<b>651,1</b>	<b>538,3</b>	<b>494,6</b>	<b>469,7</b>	<b>446,7</b>	<b>433,5</b>	<b>414,6</b>
120°	<b>670,1</b>	<b>551,7</b>	<b>500,9</b>	<b>475,2</b>	<b>451,9</b>	<b>428,3</b>	<b>398,5</b>
135°	<b>738,4</b>	<b>602,7</b>	<b>525,6</b>	<b>492,0</b>	<b>469,3</b>	<b>446,6</b>	<b>403,2</b>
150°	<b>875,1</b>	<b>694,8</b>	<b>588,3</b>	<b>523,0</b>	<b>492,3</b>	<b>471,0</b>	<b>429,1</b>
Run VMG	<b>1010,5</b>	<b>802,4</b>	<b>678,7</b>	<b>595,4</b>	<b>538,9</b>	<b>502,3</b>	<b>459,7</b>

Selected Courses							
Windward / Leeward	<b>1048,4</b>	<b>853,2</b>	<b>739,0</b>	<b>663,9</b>	<b>622,4</b>	<b>597,8</b>	<b>572,8</b>
Circular Random	<b>880,0</b>	<b>709,5</b>	<b>617,5</b>	<b>563,6</b>	<b>530,4</b>	<b>508,7</b>	<b>482,3</b>
Ocean for PCS	<b>1078,5</b>	<b>832,3</b>	<b>692,9</b>	<b>607,4</b>	<b>552,0</b>	<b>513,7</b>	<b>461,3</b>
Non Spinnaker	<b>933,1</b>	<b>747,1</b>	<b>645,5</b>	<b>585,4</b>	<b>547,9</b>	<b>523,5</b>	<b>493,4</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>43,1°</b>	<b>41,7°</b>	<b>41,8°</b>	<b>40,2°</b>	<b>38,9°</b>	<b>38,7°</b>	<b>38,5°</b>
Beat VMG	<b>3,31</b>	<b>3,98</b>	<b>4,50</b>	<b>4,92</b>	<b>5,10</b>	<b>5,19</b>	<b>5,25</b>
52°	<b>5,07</b>	<b>6,02</b>	<b>6,71</b>	<b>7,08</b>	<b>7,23</b>	<b>7,30</b>	<b>7,35</b>
60°	<b>5,39</b>	<b>6,37</b>	<b>6,95</b>	<b>7,26</b>	<b>7,44</b>	<b>7,52</b>	<b>7,58</b>
75°	<b>5,67</b>	<b>6,64</b>	<b>7,12</b>	<b>7,42</b>	<b>7,67</b>	<b>7,87</b>	<b>8,04</b>
90°	<b>5,67</b>	<b>6,65</b>	<b>7,23</b>	<b>7,49</b>	<b>7,71</b>	<b>8,00</b>	<b>8,49</b>
110°	<b>5,53</b>	<b>6,69</b>	<b>7,28</b>	<b>7,66</b>	<b>8,06</b>	<b>8,31</b>	<b>8,68</b>
120°	<b>5,37</b>	<b>6,53</b>	<b>7,19</b>	<b>7,58</b>	<b>7,97</b>	<b>8,41</b>	<b>9,03</b>
135°	<b>4,88</b>	<b>5,97</b>	<b>6,85</b>	<b>7,32</b>	<b>7,67</b>	<b>8,06</b>	<b>8,93</b>
150°	<b>4,11</b>	<b>5,18</b>	<b>6,12</b>	<b>6,88</b>	<b>7,31</b>	<b>7,64</b>	<b>8,39</b>
Run VMG	<b>3,56</b>	<b>4,49</b>	<b>5,30</b>	<b>6,05</b>	<b>6,68</b>	<b>7,17</b>	<b>7,83</b>
Gybe Angles	<b>145,7°</b>	<b>150,2°</b>	<b>151,2°</b>	<b>157,2°</b>	<b>175,3°</b>	<b>180,0°</b>	<b>180,0°</b>