



World Leader in Rating Technology

## 2017 ORC Club Certificate

### Rating Office

EYU  
Regati 1  
11911, Tallinn  
Estonia

### Certificate

Number **EST499**  
Issued On **15.08.2017**  
ORC Ref **EST00001568**  
VPP Ver. **2017 1.00**  
Valid until **31.12.2017**

### Crew Weight

Declared **860kg**  
Default\* **785kg**  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Double H.GPH	581,8	1,0312
Double H.OSN	567,2	1,0578
Non Spin GPH	605,5	0,9909
Non Spin OSN	590,1	1,0168

### Sails Limitations

Headsails **6** Spinnakers **4**

### Spinnaker configuration

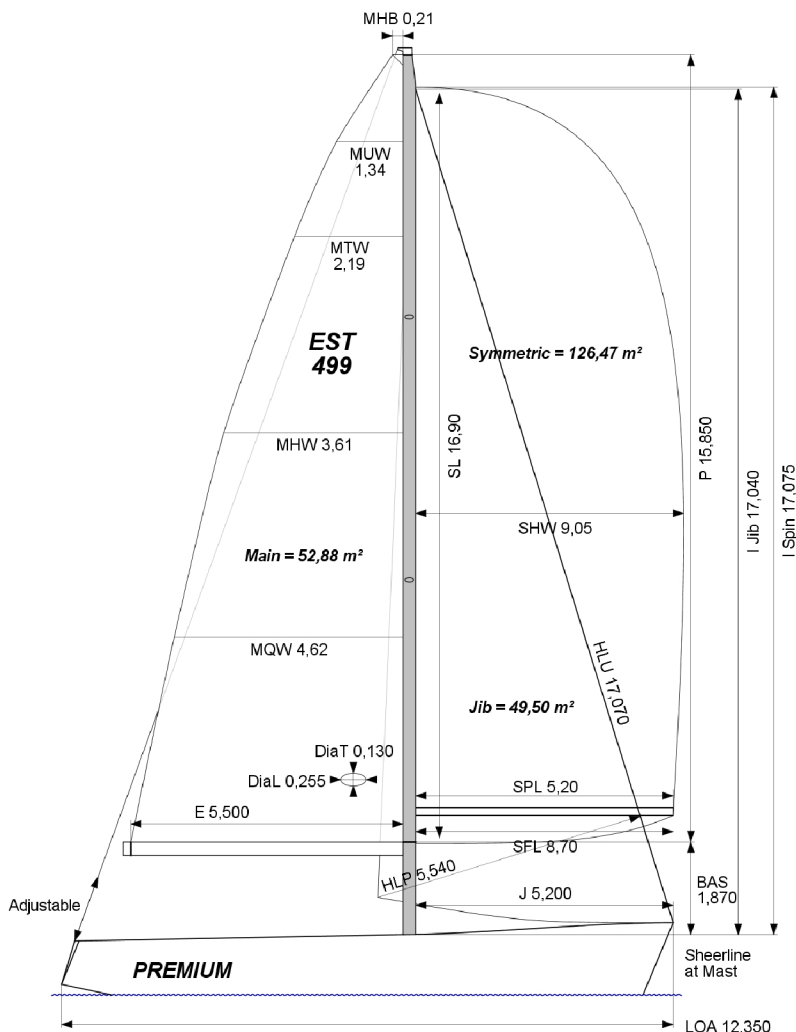
Symmetric: **Yes** 126,47  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

**CDL = 10,458**

### Stability (Measured)

Limit Positive Stab.: **130,7°**  
Stability Index: **134,3**



BOAT	GPH	HULL
Name <b>PREMIUM</b> Sail Nr <b>EST 499</b>	<b>577,7</b>	Data File <b>Est0499</b> LOA <b>12,350m</b> Offset File <b>X41_k2016_mkR</b> MB <b>3,646m</b> Displacement <b>6 930kg</b> Draft <b>2,313m</b>
<b>CLASS</b> Class <b>X-41 mod</b> Designer <b>JEPPESEN</b> Builder <b>X YACHTS</b> Series <b>01.2006</b> Age Date <b>07.2016</b> Age Allowance <b>0,357%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0,000%</b> Fwd Accom. <b>Yes</b> Construction <b>Cored</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>11,088m</b> VCGD <b>-0,221m</b> Sink <b>22,98kg/mm</b> RL <b>9,826m</b> VCGM <b>-0,236m</b> WS <b>32,39m²</b> LSM0 <b>10,969m</b> Displacement/Length ratio <b>5,2509</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0,430</b> Type <b>Folding 2 blades</b> PBW <b>0,125</b> PIPA <b>0,0032</b>		Water Ballast <b>0</b> Trim Tab <b>No</b>
		<b>CENTERBOARD</b> N/A

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time On Distance	<b>562,1</b>			<b>631,3</b>	
Time On Time	<b>1,0674</b>			<b>1,0692</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>666,0</b>	<b>510,9</b>	<b>451,3</b>	<b>868,5</b>	<b>634,8</b>	<b>546,6</b>
Time on Time	<b>1,0135</b>	<b>1,3212</b>	<b>1,4956</b>	<b>0,7772</b>	<b>1,0634</b>	<b>1,2349</b>



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## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>PREMIUM</b>
Sail Nr	<b>EST 499</b>
Certificate Number	<b>EST499</b>
Issued On	<b>15.08.2017</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>987,1</b>	<b>813,6</b>	<b>714,7</b>	<b>673,6</b>	<b>654,0</b>	<b>642,5</b>	<b>628,1</b>
52°	<b>638,3</b>	<b>531,8</b>	<b>480,5</b>	<b>464,4</b>	<b>457,3</b>	<b>453,3</b>	<b>444,8</b>
60°	<b>597,5</b>	<b>503,4</b>	<b>465,2</b>	<b>450,1</b>	<b>442,9</b>	<b>438,6</b>	<b>429,8</b>
75°	<b>563,3</b>	<b>484,1</b>	<b>453,7</b>	<b>434,2</b>	<b>420,1</b>	<b>412,4</b>	<b>405,1</b>
90°	<b>563,1</b>	<b>482,7</b>	<b>452,4</b>	<b>431,5</b>	<b>410,9</b>	<b>393,1</b>	<b>375,5</b>
110°	<b>595,3</b>	<b>488,6</b>	<b>448,4</b>	<b>421,5</b>	<b>405,0</b>	<b>390,5</b>	<b>368,6</b>
120°	<b>612,6</b>	<b>499,8</b>	<b>454,6</b>	<b>426,8</b>	<b>398,2</b>	<b>376,3</b>	<b>351,6</b>
135°	<b>680,0</b>	<b>546,2</b>	<b>477,5</b>	<b>446,6</b>	<b>420,9</b>	<b>394,4</b>	<b>340,6</b>
150°	<b>809,2</b>	<b>639,8</b>	<b>538,1</b>	<b>478,0</b>	<b>448,4</b>	<b>424,6</b>	<b>376,4</b>
Run VMG	<b>934,4</b>	<b>738,8</b>	<b>621,4</b>	<b>546,5</b>	<b>498,1</b>	<b>461,8</b>	<b>414,9</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>960,8</b>	<b>776,2</b>	<b>668,0</b>	<b>610,1</b>	<b>576,0</b>	<b>552,1</b>	<b>521,5</b>
Circular Random	<b>799,3</b>	<b>643,8</b>	<b>560,3</b>	<b>511,5</b>	<b>481,1</b>	<b>460,4</b>	<b>432,7</b>
Ocean for PCS	<b>984,6</b>	<b>758,0</b>	<b>630,1</b>	<b>551,7</b>	<b>500,4</b>	<b>464,1</b>	<b>413,0</b>
Non Spinnaker	<b>848,5</b>	<b>679,0</b>	<b>586,6</b>	<b>532,0</b>	<b>497,6</b>	<b>474,5</b>	<b>444,1</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>44,1°</b>	<b>43,1°</b>	<b>42,2°</b>	<b>40,3°</b>	<b>39,8°</b>	<b>39,2°</b>	<b>38,9°</b>
Beat VMG	<b>3,65</b>	<b>4,42</b>	<b>5,04</b>	<b>5,34</b>	<b>5,50</b>	<b>5,60</b>	<b>5,73</b>
52°	<b>5,64</b>	<b>6,77</b>	<b>7,49</b>	<b>7,75</b>	<b>7,87</b>	<b>7,94</b>	<b>8,09</b>
60°	<b>6,03</b>	<b>7,15</b>	<b>7,74</b>	<b>8,00</b>	<b>8,13</b>	<b>8,21</b>	<b>8,38</b>
75°	<b>6,39</b>	<b>7,44</b>	<b>7,93</b>	<b>8,29</b>	<b>8,57</b>	<b>8,73</b>	<b>8,89</b>
90°	<b>6,39</b>	<b>7,46</b>	<b>7,96</b>	<b>8,34</b>	<b>8,76</b>	<b>9,16</b>	<b>9,59</b>
110°	<b>6,05</b>	<b>7,37</b>	<b>8,03</b>	<b>8,54</b>	<b>8,89</b>	<b>9,22</b>	<b>9,77</b>
120°	<b>5,88</b>	<b>7,20</b>	<b>7,92</b>	<b>8,43</b>	<b>9,04</b>	<b>9,57</b>	<b>10,24</b>
135°	<b>5,29</b>	<b>6,59</b>	<b>7,54</b>	<b>8,06</b>	<b>8,55</b>	<b>9,13</b>	<b>10,57</b>
150°	<b>4,45</b>	<b>5,63</b>	<b>6,69</b>	<b>7,53</b>	<b>8,03</b>	<b>8,48</b>	<b>9,56</b>
Run VMG	<b>3,85</b>	<b>4,87</b>	<b>5,79</b>	<b>6,59</b>	<b>7,23</b>	<b>7,80</b>	<b>8,68</b>
Gybe Angles	<b>141,7°</b>	<b>147,5°</b>	<b>149,7°</b>	<b>155,3°</b>	<b>168,4°</b>	<b>180,0°</b>	<b>180,0°</b>