



World Leader in Rating Technology

## 2017 ORC Club Certificate

### Rating Office

EYU  
Regati 1  
11911, Tallinn  
Estonia

### Certificate

Number **EST711**  
Issued On **29.08.2017**  
ORC Ref **EST00001579**  
VPP Ver. **2017 1.00**  
Valid until **31.12.2017**

### Crew Weight

Declared **810kg**  
Default\* **717kg**  
Non Manual Pwr **No**

### Special Scoring

	ToD	ToT
Double H.GPH	613,8	0,9776
Double H.OSN	598,6	1,0024
Non Spin GPH	641,6	0,9352
Non Spin OSN	623,0	0,9631

### Sails Limitations

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

### Spinnaker configuration

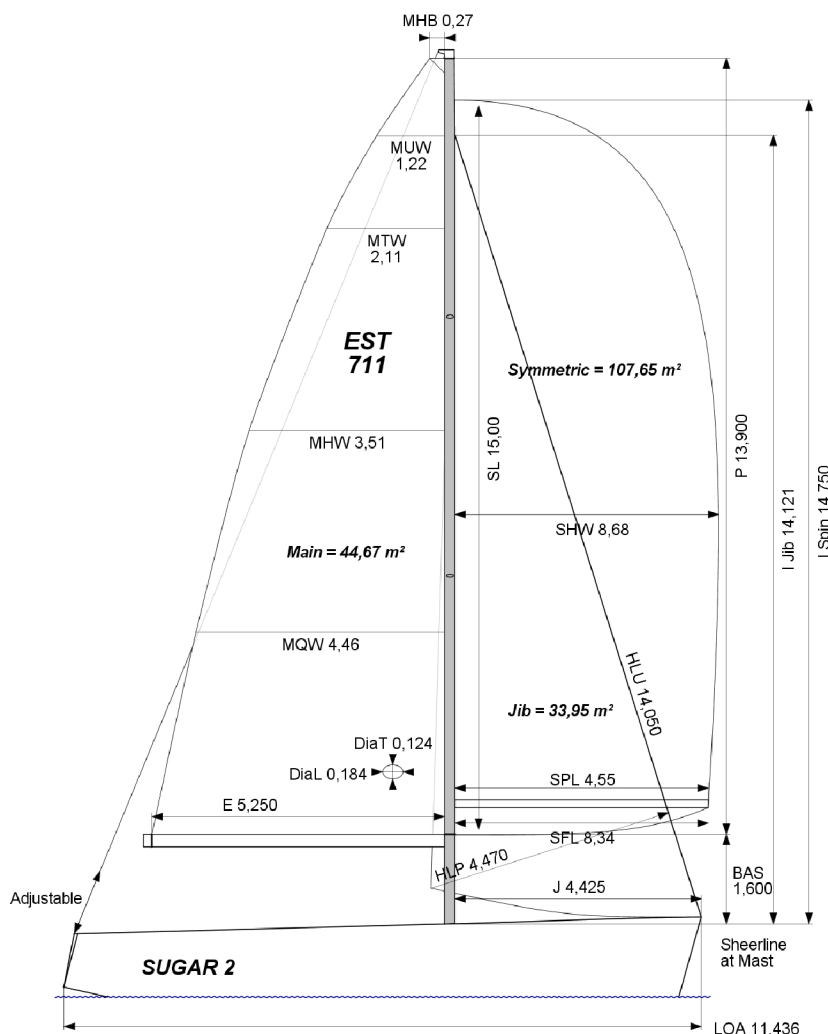
Symmetric: **Yes** 107,65  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

CDL = **9,550**

### Stability (Measured)

Limit Positive Stab.: **109,6°**  
Stability Index: **111,0**



BOAT	GPH	HULL
Name <b>SUGAR 2</b> Sail Nr <b>EST-711</b>	<b>608,8</b>	Data File <b>Est0711</b> LOA <b>11,436m</b> Offset File <b>NM38SNSK-1a</b> MB <b>3,566m</b> Displacement <b>5 745kg</b> Draft <b>1,999m</b>
<b>CLASS</b> Class <b>NM38S</b> Designer <b>COSSUTTI</b> Builder <b>NAUTILUS MARINE</b> Series <b>09.2010</b> Age Date <b>05.2011</b> Age Allowance <b>0,228%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0,176%</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>Yes</b> Light Stanchions
<b>COMMENTS</b> ex.Rewind,ITA23230		IMSL <b>10,547m</b> VCGD <b>0,129m</b> Sink <b>22,18kg/mm</b> RL <b>8,551m</b> VCGM <b>0,238m</b> WS <b>27,98m²</b> LSM0 <b>10,292m</b> Displacement/Length ratio <b>5,2698</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0,405</b> Type <b>Folding 2 blades</b> PBW <b>0,108</b> PIPA <b>0,0029</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>591,7</b>			<b>666,6</b>		
Time On Time	<b>1,0141</b>			<b>1,0125</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>707,2</b>	<b>537,0</b>	<b>472,7</b>	<b>924,5</b>	<b>671,0</b>	<b>575,9</b>
Time on Time	<b>0,9545</b>	<b>1,2571</b>	<b>1,4279</b>	<b>0,7301</b>	<b>1,0060</b>	<b>1,1720</b>



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# 2017

## ORC Club Certificate Appendix

BOAT	
Name	<b>SUGAR 2</b>
Certificate Number	<b>EST711</b>
Sail Nr	<b>EST-711</b>
Issued On	<b>29.08.2017</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1080,2</b>	<b>886,2</b>	<b>780,6</b>	<b>722,1</b>	<b>699,1</b>	<b>689,1</b>	<b>674,9</b>
52°	<b>693,7</b>	<b>576,5</b>	<b>513,6</b>	<b>486,1</b>	<b>477,1</b>	<b>472,8</b>	<b>466,0</b>
60°	<b>645,9</b>	<b>541,2</b>	<b>491,6</b>	<b>469,9</b>	<b>460,9</b>	<b>456,3</b>	<b>450,4</b>
75°	<b>606,5</b>	<b>514,3</b>	<b>476,4</b>	<b>455,2</b>	<b>438,7</b>	<b>429,4</b>	<b>422,2</b>
90°	<b>605,8</b>	<b>512,5</b>	<b>469,5</b>	<b>452,8</b>	<b>433,1</b>	<b>413,8</b>	<b>392,1</b>
110°	<b>614,3</b>	<b>505,5</b>	<b>463,2</b>	<b>435,2</b>	<b>415,5</b>	<b>402,6</b>	<b>380,1</b>
120°	<b>631,4</b>	<b>517,0</b>	<b>469,2</b>	<b>441,2</b>	<b>412,6</b>	<b>387,6</b>	<b>361,6</b>
135°	<b>700,2</b>	<b>563,9</b>	<b>492,1</b>	<b>459,6</b>	<b>433,6</b>	<b>406,9</b>	<b>353,9</b>
150°	<b>836,8</b>	<b>662,8</b>	<b>555,6</b>	<b>491,2</b>	<b>461,0</b>	<b>436,9</b>	<b>388,4</b>
Run VMG	<b>966,3</b>	<b>765,4</b>	<b>641,6</b>	<b>561,0</b>	<b>510,9</b>	<b>474,2</b>	<b>426,7</b>

Selected Courses							
Windward / Leeward	<b>1023,3</b>	<b>825,8</b>	<b>711,1</b>	<b>641,6</b>	<b>605,0</b>	<b>581,6</b>	<b>550,8</b>
Circular Random	<b>846,9</b>	<b>680,3</b>	<b>590,2</b>	<b>537,4</b>	<b>504,5</b>	<b>482,5</b>	<b>453,9</b>
Ocean for PCS	<b>1043,5</b>	<b>801,7</b>	<b>664,5</b>	<b>580,0</b>	<b>524,7</b>	<b>485,6</b>	<b>431,0</b>
Non Spinnaker	<b>904,9</b>	<b>721,6</b>	<b>621,2</b>	<b>561,6</b>	<b>524,4</b>	<b>499,8</b>	<b>468,3</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>44,6°</b>	<b>43,5°</b>	<b>43,1°</b>	<b>42,0°</b>	<b>40,9°</b>	<b>41,2°</b>	<b>41,3°</b>
Beat VMG	<b>3,33</b>	<b>4,06</b>	<b>4,61</b>	<b>4,99</b>	<b>5,15</b>	<b>5,22</b>	<b>5,33</b>
52°	<b>5,19</b>	<b>6,24</b>	<b>7,01</b>	<b>7,41</b>	<b>7,54</b>	<b>7,61</b>	<b>7,73</b>
60°	<b>5,57</b>	<b>6,65</b>	<b>7,32</b>	<b>7,66</b>	<b>7,81</b>	<b>7,89</b>	<b>7,99</b>
75°	<b>5,94</b>	<b>7,00</b>	<b>7,56</b>	<b>7,91</b>	<b>8,21</b>	<b>8,38</b>	<b>8,53</b>
90°	<b>5,94</b>	<b>7,02</b>	<b>7,67</b>	<b>7,95</b>	<b>8,31</b>	<b>8,70</b>	<b>9,18</b>
110°	<b>5,86</b>	<b>7,12</b>	<b>7,77</b>	<b>8,27</b>	<b>8,66</b>	<b>8,94</b>	<b>9,47</b>
120°	<b>5,70</b>	<b>6,96</b>	<b>7,67</b>	<b>8,16</b>	<b>8,73</b>	<b>9,29</b>	<b>9,96</b>
135°	<b>5,14</b>	<b>6,38</b>	<b>7,32</b>	<b>7,83</b>	<b>8,30</b>	<b>8,85</b>	<b>10,17</b>
150°	<b>4,30</b>	<b>5,43</b>	<b>6,48</b>	<b>7,33</b>	<b>7,81</b>	<b>8,24</b>	<b>9,27</b>
Run VMG	<b>3,73</b>	<b>4,70</b>	<b>5,61</b>	<b>6,42</b>	<b>7,05</b>	<b>7,59</b>	<b>8,44</b>
Gybe Angles	<b>139,7°</b>	<b>148,5°</b>	<b>149,0°</b>	<b>155,8°</b>	<b>169,9°</b>	<b>180,0°</b>	<b>180,0°</b>