



World Leader in Rating Technology

## 2018 ORC Club Certificate

### Rating Office

FSBF Rating Office  
Joakim Majander  
Matinlahdenkatu 3 E25  
02230 Espoo



SUOMEN PURJEHDUS JA VENELY  
SEGLING OCH BÅTSPORT I FINLAND

### Certificate

Number **11826b**  
Issued On **12.1.2018**  
ORC Ref **FIN00017896**  
VPP Ver. **2018 1.00**  
Valid until **31.12.2018**

### Crew Weight

Default 893kg  
Maximum **400kg**  
Minimum\* **300kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr

### Special Scoring

	ToD	ToT
Non Spin GPH	<b>612,2</b>	<b>0,9801</b>
Non Spin OSN	<b>594,1</b>	<b>1,0100</b>

### Sails Limitations

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

**Spinnaker configuration**  
Symmetric: **Yes 116,97**  
Asymmetric: **Yes 152,78**  
Flying H/S: **No**  
Spin. Pole: **Yes**

### Class Division Length

**CDL = 11,007**

### Stability (Estimated)

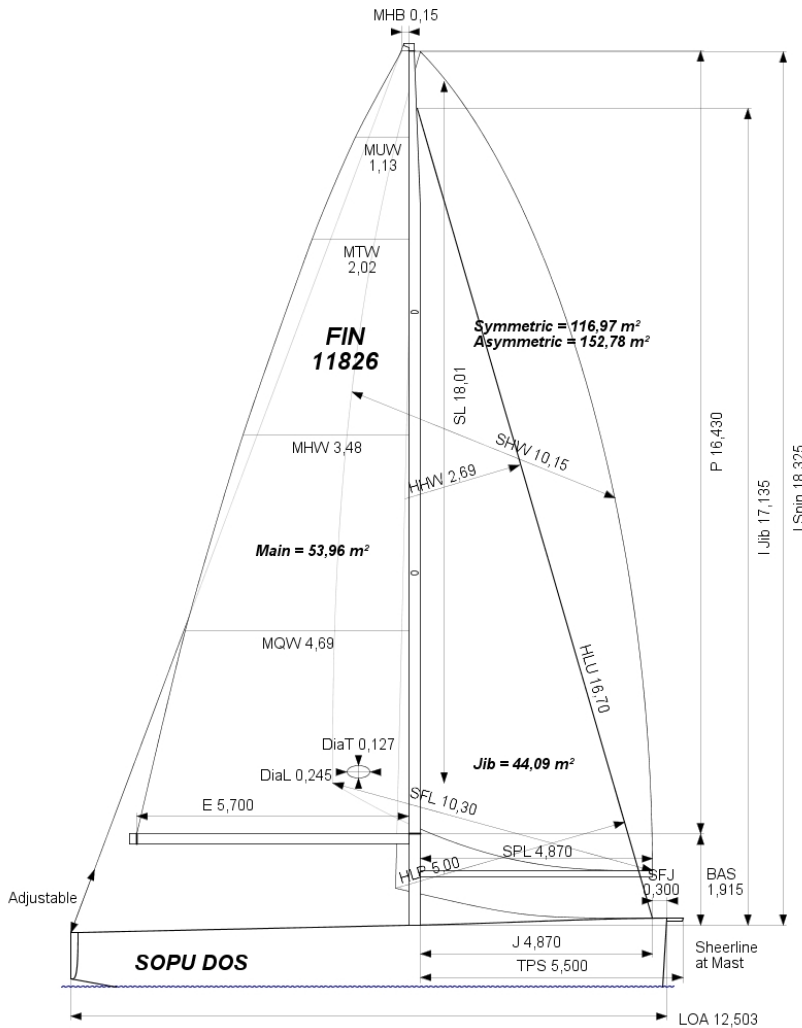
Limit Positive Stab.: **117,1°**  
Stability Index: **121,8**

### Owner

Jorma Nuutinen  
TPS

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

Signature



BOAT	GPH	HULL
Name <b>SOPU DOS</b> Sail Nr <b>FIN-11826</b>	<b>572,9</b>	Data File <b>L11826Cb</b> LOA <b>12,503m</b> Offset File <b>CLAzuree41b.off</b> MB <b>3,940m</b> Displacement <b>9 053kg</b> Draft <b>2,435m</b>
<b>CLASS</b> Class <b>Azuree 41</b> Designer <b>Rob Humphries</b> Builder <b>Sirena Marine</b> Series <b>01.2016</b> Age Date <b>08.2017</b> Age Allowance <b>0,065%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0,206%</b> Fwd Accom. <b>Yes</b> Construction <b>Cored</b> Fiber Rigging Aramid Core Crew Arm Ex Carbon Rudder Light Stanchions
<b>COMMENTS</b>		IMSL <b>12,142m</b> VCGD <b>0,097m</b> Sink <b>27,11kg/mm</b> RL <b>9,870m</b> VCGM <b>0,056m</b> WS <b>36,00m<sup>2</sup></b> LSM0 <b>12,002m</b> Displacement/Length ratio <b>5,2364</b>
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0,406</b> Type <b>Folding 3 or 4 blades</b> PIPA <b>0,0039</b>		Water Ballast <b>0</b> Trim Tab BLR Index <b>0,0000</b>
		<b>CENTERBOARD</b>  <b>NA</b>
<b>SCORING OPTIONS</b>		
	<b>COASTAL / LONG DISTANCE</b>	<b>WINDWARD / LEEWARD</b>
Time on Distance	<b>557,0</b>	<b>623,1</b>
Time on Time	<b>1,0772</b>	<b>1,0833</b>
Triple Number	Low Medium High	Low Medium High
Time on Distance	<b>655,5 507,4 453,6</b>	<b>846,8 626,8 543,4</b>
Time on Time	<b>1,0298 1,3304 1,4882</b>	<b>0,7971 1,0769 1,2422</b>



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## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>SOPU DOS</b>	Certificate Number	<b>11826b</b>
Sail Nr	<b>FIN-11826</b>	Issued On	<b>12.1.2018</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>974,7</b>	<b>800,5</b>	<b>712,8</b>	<b>672,1</b>	<b>654,1</b>	<b>645,7</b>	<b>627,0</b>
52°	<b>639,4</b>	<b>536,3</b>	<b>483,9</b>	<b>463,3</b>	<b>455,8</b>	<b>452,1</b>	<b>444,8</b>
60°	<b>605,8</b>	<b>511,6</b>	<b>467,7</b>	<b>449,8</b>	<b>442,6</b>	<b>438,9</b>	<b>433,9</b>
75°	<b>581,4</b>	<b>494,1</b>	<b>456,5</b>	<b>438,8</b>	<b>427,7</b>	<b>421,0</b>	<b>415,2</b>
90°	<b>580,9</b>	<b>486,7</b>	<b>455,9</b>	<b>437,0</b>	<b>422,7</b>	<b>410,0</b>	<b>391,2</b>
110°	<b>573,1</b>	<b>476,6</b>	<b>440,1</b>	<b>422,7</b>	<b>411,4</b>	<b>400,8</b>	<b>381,5</b>
120°	<b>587,8</b>	<b>485,3</b>	<b>443,7</b>	<b>421,1</b>	<b>400,5</b>	<b>386,2</b>	<b>364,2</b>
135°	<b>652,4</b>	<b>530,0</b>	<b>464,6</b>	<b>435,4</b>	<b>413,4</b>	<b>390,1</b>	<b>344,8</b>
150°	<b>774,5</b>	<b>621,5</b>	<b>524,7</b>	<b>466,6</b>	<b>437,7</b>	<b>417,0</b>	<b>373,5</b>
Run VMG	<b>894,3</b>	<b>717,6</b>	<b>605,9</b>	<b>533,3</b>	<b>488,6</b>	<b>453,0</b>	<b>410,7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>934,5</b>	<b>759,1</b>	<b>659,4</b>	<b>602,7</b>	<b>571,3</b>	<b>549,4</b>	<b>518,8</b>
Circular Random	<b>788,0</b>	<b>636,4</b>	<b>555,7</b>	<b>509,3</b>	<b>480,9</b>	<b>461,9</b>	<b>436,1</b>
Coastal / Long Distance	<b>930,5</b>	<b>712,5</b>	<b>593,9</b>	<b>526,0</b>	<b>490,6</b>	<b>463,5</b>	<b>418,9</b>
Non Spinnaker	<b>860,7</b>	<b>687,2</b>	<b>592,8</b>	<b>537,2</b>	<b>502,7</b>	<b>480,0</b>	<b>450,9</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>42,8°</b>	<b>40,9°</b>	<b>40,3°</b>	<b>39,9°</b>	<b>39,3°</b>	<b>39,0°</b>	<b>38,4°</b>
Beat VMG	<b>3,69</b>	<b>4,50</b>	<b>5,05</b>	<b>5,36</b>	<b>5,50</b>	<b>5,58</b>	<b>5,74</b>
52°	<b>5,63</b>	<b>6,71</b>	<b>7,44</b>	<b>7,77</b>	<b>7,90</b>	<b>7,96</b>	<b>8,09</b>
60°	<b>5,94</b>	<b>7,04</b>	<b>7,70</b>	<b>8,00</b>	<b>8,13</b>	<b>8,20</b>	<b>8,30</b>
75°	<b>6,19</b>	<b>7,29</b>	<b>7,89</b>	<b>8,20</b>	<b>8,42</b>	<b>8,55</b>	<b>8,67</b>
90°	<b>6,20</b>	<b>7,40</b>	<b>7,90</b>	<b>8,24</b>	<b>8,52</b>	<b>8,78</b>	<b>9,20</b>
110°	<b>6,28</b>	<b>7,55</b>	<b>8,18</b>	<b>8,52</b>	<b>8,75</b>	<b>8,98</b>	<b>9,44</b>
120°	<b>6,13</b>	<b>7,42</b>	<b>8,11</b>	<b>8,55</b>	<b>8,99</b>	<b>9,32</b>	<b>9,89</b>
135°	<b>5,52</b>	<b>6,79</b>	<b>7,75</b>	<b>8,27</b>	<b>8,71</b>	<b>9,23</b>	<b>10,44</b>
150°	<b>4,65</b>	<b>5,79</b>	<b>6,86</b>	<b>7,72</b>	<b>8,22</b>	<b>8,63</b>	<b>9,64</b>
Run VMG	<b>4,03</b>	<b>5,02</b>	<b>5,94</b>	<b>6,75</b>	<b>7,37</b>	<b>7,95</b>	<b>8,77</b>
Gybe Angles	<b>141,8°</b>	<b>147,5°</b>	<b>148,8°</b>	<b>154,7°</b>	<b>163,6°</b>	<b>180,0°</b>	<b>180,0°</b>