



**ORC**

Offshore Racing Congress  
World leader in rating technology

**2020**  
**ORC Club**  
**Certificate**

**Rating Office**  
**Hellenic Sailing Federation**  
**Offshore Committee**  
Επιτροπή  
Ανοικτής Θαλάσσης  
Ελληνικής  
Ιστιοπλοϊκής Ομοσπονδίας



**Certificate**

Number **01312**  
Issued On **30/06/2020**  
ORC Ref **03420000LNQ**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**

Default 681kg  
Maximum **630kg**  
Minimum\* **473kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **Rig**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>643.0</b>	<b>0.9331</b>
Non Spin OSN	<b>623.0</b>	<b>0.9631</b>

**Sails Limitations**

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

**Asymmetric on centerline**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 118.77**  
Flying H/S: **No**  
Spin. Pole: **No**

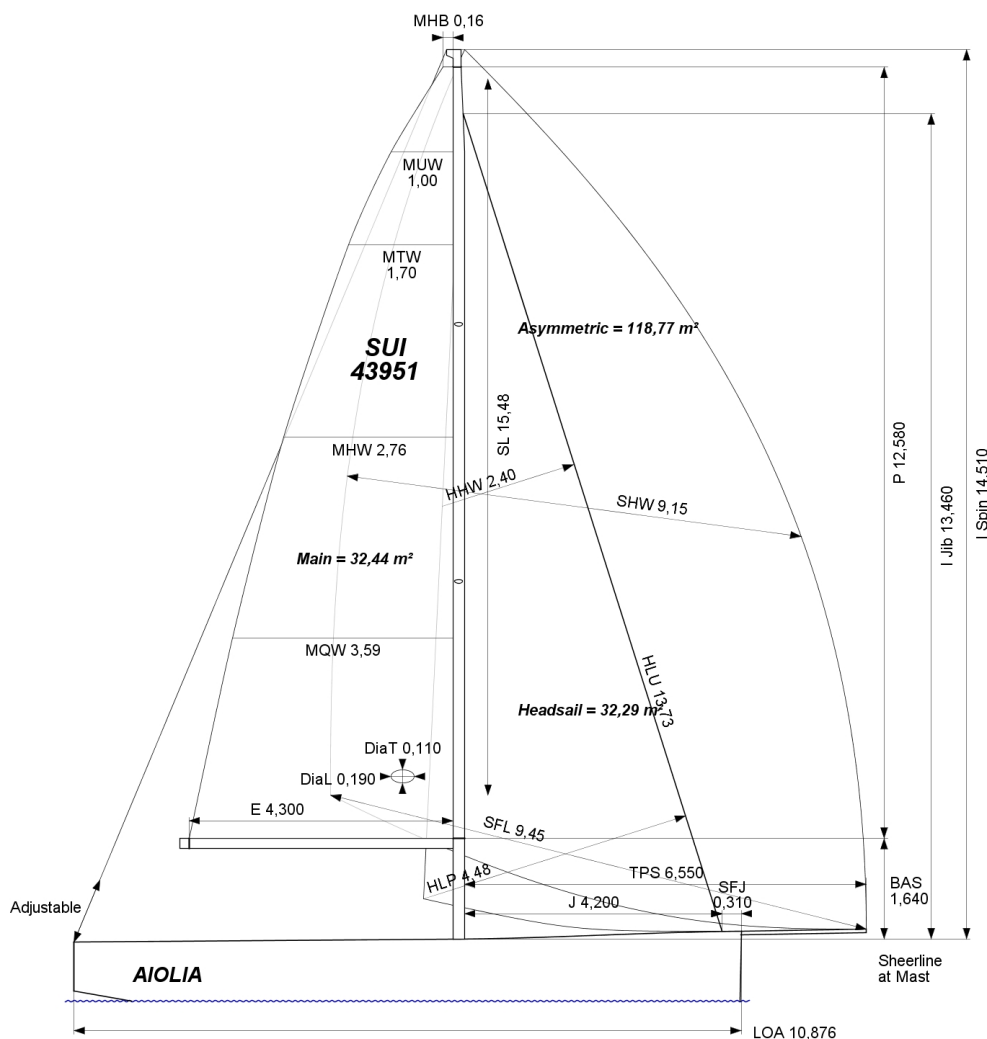
**Class Division Length**

**CDL = 9.773**

**Stability (Estimated)**

Limit Positive Stab.: **121.2°**  
Stability Index: **122.4**

**Owner**



BOAT		GPH	HULL			
Name <b>AIOLIA</b> Sail Nr <b>SUI-43951</b>		<b>594.4</b>	Data File <b>SUI43951</b>	LOA <b>10.876m</b>		
CLASS			Offset File <b>J11S-CL.off</b>	MB <b>3.296m</b>		
Class <b>J 11S</b>			Displacement <b>4,664kg</b>	Draft <b>2.200m</b>		
Designer <b>Johnstone</b>			IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0.203%</b>		
Builder <b>J COMPOSITES</b>			Plan Review	Construction <b>Cored</b>		
Series <b>01/2014</b>			Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
Age Date <b>03/2017</b>			Crew Arm Ex	Carbon Rudder <b>No</b>		
Age Allowance <b>0.195%</b>				Light Stanchions <b>No</b>		
COMMENTS			IMSL <b>10.219m</b>	VCGD <b>-0.222m</b>		
Scale weight. ex "JATAKA".			RL <b>9.326m</b>	VCGM <b>-0.073m</b>		
PROPELLER			WS <b>23.41m²</b>	LSM0 <b>9.927m</b>		
Installation <b>Strut</b>	PRD <b>0.380</b>		Displacement/Length ratio <b>4.7677</b>	Water Ballast <b>0</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.100</b>		Trim Tab <b>No</b>	BLR Index <b>0.0000</b>		
	PIPA <b>0.0035</b>		CENTERBOARD			
SCORING OPTIONS				<b>N/A</b>		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>578.2</b>			<b>651.8</b>		
Time on Time	<b>1.0378</b>			<b>1.0355</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>681.5</b>	<b>525.8</b>	<b>469.7</b>	<b>885.8</b>	<b>651.5</b>	<b>574.8</b>
Time on Time	<b>0.9905</b>	<b>1.2837</b>	<b>1.4372</b>	<b>0.7620</b>	<b>1.0361</b>	<b>1.1743</b>

<b>BOAT</b>	
Name <b>AIOLIA</b>	Sail Nr <b>SUI-43951</b>
File <b>SUI43951</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>None Fitted</b>	Runners/Checkstays <b>0</b>
Carbon Mast <b>No</b>	Jib Furler <b>No</b>
Fiber Rigging <b>No</b>	Main Furler <b>No</b>
Non-Circular Rigging <b>No</b>	
Articulated Bowsprit <b>No</b>	
P <b>12.580</b>	E <b>4.300</b> MDT1 <b>0.110</b> MW <b>0.190</b>
IG <b>13.460</b>	J <b>4.200</b> MDL1 <b>0.190</b> GO <b>0.193</b>
ISP <b>14.510</b>	SFJ <b>0.310</b> MDT2 <b>0.100</b> BD <b>0.160</b>
BAS <b>1.640</b>	SPL <b></b> MDL2 <b>0.140</b> MWT <b></b>
FSD <b>0.035</b>	TPS <b>6.550</b> TL <b>1.380</b> MCG <b></b>

<b>INCLINING TEST AND FREEBOARDS</b>	
Inclining Test <b>Club Estimated VCG</b>	
Flotation date <b>05/06/2020</b>	SG
FFM <b>FF 1.124</b> SFFP <b>0.920</b>	
FAM <b>FA 0.961</b> SAFP <b>10.873</b>	
LCF from stem on CL / on sheer	<b>5.717 / 5.937</b>
Maximum beam station from stem	<b>6.610</b>
RM Measured	<b>102.2kg-m</b>
RM Default	<b>99.2kg-m</b>
Limit of positive stability / Stab.Index	<b>121.2° / 122.4</b>
Freeboard at mast at 4.510	<b>1.015</b>



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**2020**  
Measurements  
Datasheet

<b>MIZZEN RIG AND SAILS</b>	
N/A	

<b>PROPELLER</b>	
Installation <b>Strut</b>	PRD <b>0.380</b>
Type <b>Folding 2 blades</b>	PBW <b>0.100</b>
Twin Screw <b>No</b>	PIPA <b>0.0035</b>
ST1 <b>0.065</b>	ST3 <b>0.180</b> ST5 <b>0.210</b>
ST2 <b>0.180</b>	ST4 <b>0.110</b> EDL <b>1.900</b>

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<b>COMMENTS</b>	
Scale weight. ex "JATAKA".	

<b>MOVABLE BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	

<b>SAILS INVENTORY</b>																
<b>MAINSAIL (1)</b>																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.16	1.00	1.70	2.76	3.59	32.45		13/09/2018	X-VOILES	Carbon						
<b>HEADSAILS (4)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
J0	0.10	0.71	1.30	2.40	3.46	4.48	13.73	107%	32.29		No		04/03/2020	QUANTUM	Carbon	LITE SKIN
J1	0.18	0.70	1.21	2.10	3.10	4.06	12.53	97%	26.60	Y	No		13/09/2018	X-VOILES	Carbon	
J2	0.08	0.55	1.02	1.89	2.88	3.92	12.50	93%	24.36	Y	No		13/09/2018	X-VOILES	Carbon	
J3	0.07	0.45	0.86	1.71	2.67	3.66	11.45	87%	20.39	Y	No		13/09/2018	X-VOILES	Polyest	
<b>SYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
<b>ASYMMETRIC SPINNAKERS (3)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	16.80	14.15	15.48	9.15	9.45	118.78	asym		09/06/2019	QUANTUM	Nylon					
3	16.23	14.10	15.17	8.10	9.10	104.90	asym		04/03/2020	QUANTUM	Nylon					
1	13.80	12.40	13.10	5.50	7.15	63.65	asy77		13/09/2018	NORTH	Nylon					

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>AIOLIA</b>	Certificate Number <b>01312</b>
Sail Nr <b>SUI-43951</b>	Issued On <b>30/06/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1030.4</b>	<b>843.8</b>	<b>737.1</b>	<b>691.4</b>	<b>675.1</b>	<b>668.3</b>	<b>652.2</b>
52°	<b>672.6</b>	<b>561.8</b>	<b>506.2</b>	<b>486.3</b>	<b>479.3</b>	<b>475.9</b>	<b>470.2</b>
60°	<b>634.2</b>	<b>535.7</b>	<b>492.4</b>	<b>474.4</b>	<b>465.9</b>	<b>461.8</b>	<b>457.5</b>
75°	<b>600.6</b>	<b>508.2</b>	<b>476.7</b>	<b>462.9</b>	<b>448.7</b>	<b>438.8</b>	<b>431.1</b>
90°	<b>575.9</b>	<b>494.3</b>	<b>463.7</b>	<b>443.3</b>	<b>429.1</b>	<b>418.9</b>	<b>401.5</b>
110°	<b>592.0</b>	<b>494.8</b>	<b>459.6</b>	<b>437.8</b>	<b>415.1</b>	<b>391.8</b>	<b>359.2</b>
120°	<b>605.2</b>	<b>500.9</b>	<b>462.4</b>	<b>432.8</b>	<b>406.2</b>	<b>389.2</b>	<b>347.9</b>
135°	<b>680.9</b>	<b>541.4</b>	<b>480.6</b>	<b>450.5</b>	<b>420.2</b>	<b>389.9</b>	<b>328.3</b>
150°	<b>806.0</b>	<b>639.3</b>	<b>537.0</b>	<b>484.4</b>	<b>462.1</b>	<b>441.2</b>	<b>383.4</b>
Run VMG	<b>930.7</b>	<b>738.3</b>	<b>620.1</b>	<b>559.0</b>	<b>532.6</b>	<b>497.4</b>	<b>442.7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>980.5</b>	<b>791.0</b>	<b>678.6</b>	<b>625.2</b>	<b>603.8</b>	<b>582.8</b>	<b>547.4</b>
Circular Random	<b>818.7</b>	<b>660.5</b>	<b>576.4</b>	<b>528.2</b>	<b>498.6</b>	<b>478.1</b>	<b>447.5</b>
Coastal / Long Distance	<b>975.5</b>	<b>741.3</b>	<b>612.5</b>	<b>544.3</b>	<b>510.9</b>	<b>482.6</b>	<b>429.5</b>
Non Spinnaker	<b>908.1</b>	<b>723.2</b>	<b>622.2</b>	<b>562.7</b>	<b>525.7</b>	<b>501.2</b>	<b>469.4</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>41.3°</b>	<b>40.5°</b>	<b>39.0°</b>	<b>38.3°</b>	<b>38.3°</b>	<b>37.7°</b>
Beat VMG	<b>3.49</b>	<b>4.27</b>	<b>4.88</b>	<b>5.21</b>	<b>5.33</b>	<b>5.39</b>	<b>5.52</b>
52°	<b>5.35</b>	<b>6.41</b>	<b>7.11</b>	<b>7.40</b>	<b>7.51</b>	<b>7.57</b>	<b>7.66</b>
60°	<b>5.68</b>	<b>6.72</b>	<b>7.31</b>	<b>7.59</b>	<b>7.73</b>	<b>7.80</b>	<b>7.87</b>
75°	<b>5.99</b>	<b>7.08</b>	<b>7.55</b>	<b>7.78</b>	<b>8.02</b>	<b>8.20</b>	<b>8.35</b>
90°	<b>6.25</b>	<b>7.28</b>	<b>7.76</b>	<b>8.12</b>	<b>8.39</b>	<b>8.59</b>	<b>8.97</b>
110°	<b>6.08</b>	<b>7.28</b>	<b>7.83</b>	<b>8.22</b>	<b>8.67</b>	<b>9.19</b>	<b>10.02</b>
120°	<b>5.95</b>	<b>7.19</b>	<b>7.79</b>	<b>8.32</b>	<b>8.86</b>	<b>9.25</b>	<b>10.35</b>
135°	<b>5.29</b>	<b>6.65</b>	<b>7.49</b>	<b>7.99</b>	<b>8.57</b>	<b>9.23</b>	<b>10.97</b>
150°	<b>4.47</b>	<b>5.63</b>	<b>6.70</b>	<b>7.43</b>	<b>7.79</b>	<b>8.16</b>	<b>9.39</b>
Run VMG	<b>3.87</b>	<b>4.88</b>	<b>5.81</b>	<b>6.44</b>	<b>6.76</b>	<b>7.24</b>	<b>8.13</b>
Gybe Angles	<b>144.0°</b>	<b>147.0°</b>	<b>148.0°</b>	<b>150.8°</b>	<b>151.0°</b>	<b>176.0°</b>	<b>142.3°</b>