

<b>BOAT</b> Name <b>AEOLUS II</b> Sail Nr <b>GRE-1007</b>	<b>GPH</b> <b>624.5</b>	<b>HULL</b> Length Overall <b>10.640m</b> Maximum Beam <b>3.458m</b> Displacement <b>5,463kg</b> Draft <b>2.216m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.017%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Solid</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>FIRST 36.7</b> Designer <b>BRUCE FARR</b> Builder <b>BENETEAU</b> Series <b>10/2001</b> Age <b>08/2002</b> Age Allowance <b>0.487%</b> Offset File <b>F196.OFF - 20/11/2001 14:27:28</b> Measurement by <b>TSALT/DIMOU/KALATZ - 06/09/2005</b>		IMSL <b>9.536m</b> VCGD <b>0.106m</b> Sink <b>19.05kg/mm</b> RL <b>8.713m</b> VCGM <b>0.103m</b> WS <b>24.91m<sup>2</sup></b> LSM0 <b>9.486m</b> Displacement/Length ratio <b>6.4000</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>607.4</b>			<b>676.2</b>		
Time on Time	<b>0.9879</b>			<b>0.9983</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>711.4</b>	<b>553.8</b>	<b>499.1</b>	<b>913.9</b>	<b>678.3</b>	<b>595.2</b>
Time on Time	<b>0.9488</b>	<b>1.2188</b>	<b>1.3525</b>	<b>0.7386</b>	<b>0.9952</b>	<b>1.1340</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1016.6</b>	<b>847.9</b>	<b>752.3</b>	<b>715.3</b>	<b>702.8</b>	<b>698.5</b>	<b>695.8</b>
52°	<b>675.0</b>	<b>569.8</b>	<b>522.2</b>	<b>505.2</b>	<b>499.6</b>	<b>497.1</b>	<b>495.2</b>
60°	<b>643.1</b>	<b>548.1</b>	<b>509.8</b>	<b>493.7</b>	<b>487.0</b>	<b>483.8</b>	<b>482.5</b>
75°	<b>619.9</b>	<b>534.4</b>	<b>501.2</b>	<b>483.1</b>	<b>470.4</b>	<b>463.2</b>	<b>457.6</b>
90°	<b>626.3</b>	<b>536.2</b>	<b>497.5</b>	<b>480.2</b>	<b>463.3</b>	<b>448.3</b>	<b>429.9</b>
110°	<b>643.5</b>	<b>533.9</b>	<b>491.8</b>	<b>467.2</b>	<b>445.8</b>	<b>432.7</b>	<b>413.9</b>
120°	<b>662.6</b>	<b>546.8</b>	<b>498.1</b>	<b>471.7</b>	<b>447.5</b>	<b>425.0</b>	<b>396.1</b>
135°	<b>731.6</b>	<b>596.3</b>	<b>522.3</b>	<b>489.3</b>	<b>465.5</b>	<b>441.6</b>	<b>397.3</b>
150°	<b>864.1</b>	<b>687.2</b>	<b>582.4</b>	<b>520.0</b>	<b>489.8</b>	<b>467.4</b>	<b>423.9</b>
Run VMG	<b>997.7</b>	<b>793.5</b>	<b>671.5</b>	<b>591.4</b>	<b>535.4</b>	<b>499.5</b>	<b>455.3</b>

**Certificate**

Number **000321**  
ORC Ref **GRE01009534**  
Issued On **20/04/2018**  
VPP Ver. **2018 1.00**  
Valid until **28/02/2019**

**Crew Weight**

Default 638kg  
Maximum **600kg**  
Minimum\* **450kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>651.5</b>	<b>0.9210</b>
Non Spin OSN	<b>632.5</b>	<b>0.9487</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1007.2</b>	<b>820.7</b>	<b>711.9</b>	<b>653.4</b>	<b>619.1</b>	<b>599.0</b>	<b>575.6</b>
Circular Random	<b>855.3</b>	<b>692.4</b>	<b>606.0</b>	<b>556.6</b>	<b>527.0</b>	<b>508.0</b>	<b>484.2</b>
Coastal / Long Distance	<b>1006.2</b>	<b>772.5</b>	<b>644.3</b>	<b>574.1</b>	<b>537.5</b>	<b>508.8</b>	<b>463.1</b>
Non Spinnaker	<b>903.8</b>	<b>726.6</b>	<b>631.4</b>	<b>576.3</b>	<b>542.8</b>	<b>521.3</b>	<b>494.3</b>

**Sails Limitations**

Headsails	Spinnakers
<b>5</b>	<b>3</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>42.1°</b>	<b>40.9°</b>	<b>40.0°</b>	<b>38.7°</b>	<b>38.2°</b>	<b>38.6°</b>	<b>38.8°</b>
Beat VMG	<b>3.54</b>	<b>4.25</b>	<b>4.79</b>	<b>5.03</b>	<b>5.12</b>	<b>5.15</b>	<b>5.17</b>
52°	<b>5.33</b>	<b>6.32</b>	<b>6.89</b>	<b>7.13</b>	<b>7.21</b>	<b>7.24</b>	<b>7.27</b>
60°	<b>5.60</b>	<b>6.57</b>	<b>7.06</b>	<b>7.29</b>	<b>7.39</b>	<b>7.44</b>	<b>7.46</b>
75°	<b>5.81</b>	<b>6.74</b>	<b>7.18</b>	<b>7.45</b>	<b>7.65</b>	<b>7.77</b>	<b>7.87</b>
90°	<b>5.75</b>	<b>6.71</b>	<b>7.24</b>	<b>7.50</b>	<b>7.77</b>	<b>8.03</b>	<b>8.37</b>
110°	<b>5.59</b>	<b>6.74</b>	<b>7.32</b>	<b>7.71</b>	<b>8.08</b>	<b>8.32</b>	<b>8.70</b>
120°	<b>5.43</b>	<b>6.58</b>	<b>7.23</b>	<b>7.63</b>	<b>8.05</b>	<b>8.47</b>	<b>9.09</b>
135°	<b>4.92</b>	<b>6.04</b>	<b>6.89</b>	<b>7.36</b>	<b>7.73</b>	<b>8.15</b>	<b>9.06</b>
150°	<b>4.17</b>	<b>5.24</b>	<b>6.18</b>	<b>6.92</b>	<b>7.35</b>	<b>7.70</b>	<b>8.49</b>
Run VMG	<b>3.61</b>	<b>4.54</b>	<b>5.36</b>	<b>6.09</b>	<b>6.72</b>	<b>7.21</b>	<b>7.91</b>
Gybe Angles	<b>145.3°</b>	<b>149.9°</b>	<b>151.6°</b>	<b>157.6°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**

CDL = **9.125**

**Storm Sails Areas**

Heavy Weather Jib **27.48**  
Storm Jib (JL=9.27) **10.18**  
Storm Trysail **11.33**

**Owner**

<b>BOAT</b>	
Name <b>AEOLUS II</b>	Sail Nr <b>GRE-1007</b>
File <b>GR1007</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>04/04/2017</b>	SG <b>1.0285</b>	
FFM <b>1.348</b>	FF <b>1.344</b>	SFFP <b>0.367</b>
FAM <b>1.068</b>	FA <b>1.072</b>	SAFP <b>10.162</b>
W1 <b>86.6</b>	PD1 <b>549.1</b>	WD <b>10.590</b>
W2 <b>86.6</b>	PD2 <b>550.4</b>	GSA <b>1.0</b>
W3 <b>86.6</b>	PD3 <b>549.9</b>	RSA <b>1.0</b>
W4 <b>86.6</b>	PD4 <b>551.0</b>	PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>5.859 / 6.074</b>
Maximum beam station from stem		<b>6.980</b>
RM Measured		<b>131.3kg-m</b>
RM Default		<b>137.2kg-m</b>
Limit of positive stability / Stab.Index		<b>115.0° / 116.5</b>
Freeboard at mast at 3.970		<b>1.201</b>



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**IMS Measurement Certificate**

<b>RIG</b>				
Forestay Tension <b>Aft</b>	Spreaders <b>3</b>			
Inner Stay <b>None Fitted</b>	Runners <b>0</b>			
Carbon Mast <b>No</b>	Jumper Struts <b>None</b>			
Taper Hollows <b>No</b>	Jib Furler <b>No</b>			
Fiber Rigging <b>No</b>	Main Furler <b>No</b>			
Lenticular Rigging <b>No</b>	Without Backstay <b>No</b>			
Articulated Bowsprit <b>No</b>				
P <b>13.770</b>	E <b>4.700</b>	MDT1 <b>0.104</b>	MW <b>0.187</b>	
IG <b>14.196</b>	J <b>3.970</b>	MDL1 <b>0.187</b>	GO <b>0.207</b>	
ISP <b>14.216</b>	SFJ <b>0.000</b>	MDT2 <b>0.104</b>	BD <b>0.160</b>	
BAS <b>1.566</b>	SPL <b>3.969</b>	MDL2 <b>0.150</b>	MWT <b>150.50</b>	
FSP <b>0.066</b>	TPS	TL <b>1.300</b>	MCG <b>5.925</b>	

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

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0.406</b>	
Type <b>Folding 2 blades</b>	PBW <b>0.111</b>	
Twin Screw <b>No</b>	PIPA <b>0.0033</b>	
ST1 <b>0.041</b>	ST3 <b>0.180</b>	ST5 <b>0.275</b>
ST2 <b>0.180</b>	ST4 <b>0.110</b>	EDL <b>2.480</b>

<b>COMMENTS</b>

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



Invalid for Racing

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<b>CENTERBOARD</b>	
<b>N/A</b>	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.168	0.98	1.78	3.05	3.99	38.75	39.52	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	85.92		SL · (SFL + 4·SHW) / 6	
	14.07	14.07	14.07	7.37	7.16				
Asymmetric Not Available									

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
<b>HHB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Fly</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.08	0.66	1.29	2.61	3.99	5.46	14.10	37.63			28/04/2017	Carbon	
0.11	0.71	1.34	2.63	4.00	5.37	13.80	36.94			19/03/2010	Polyest	

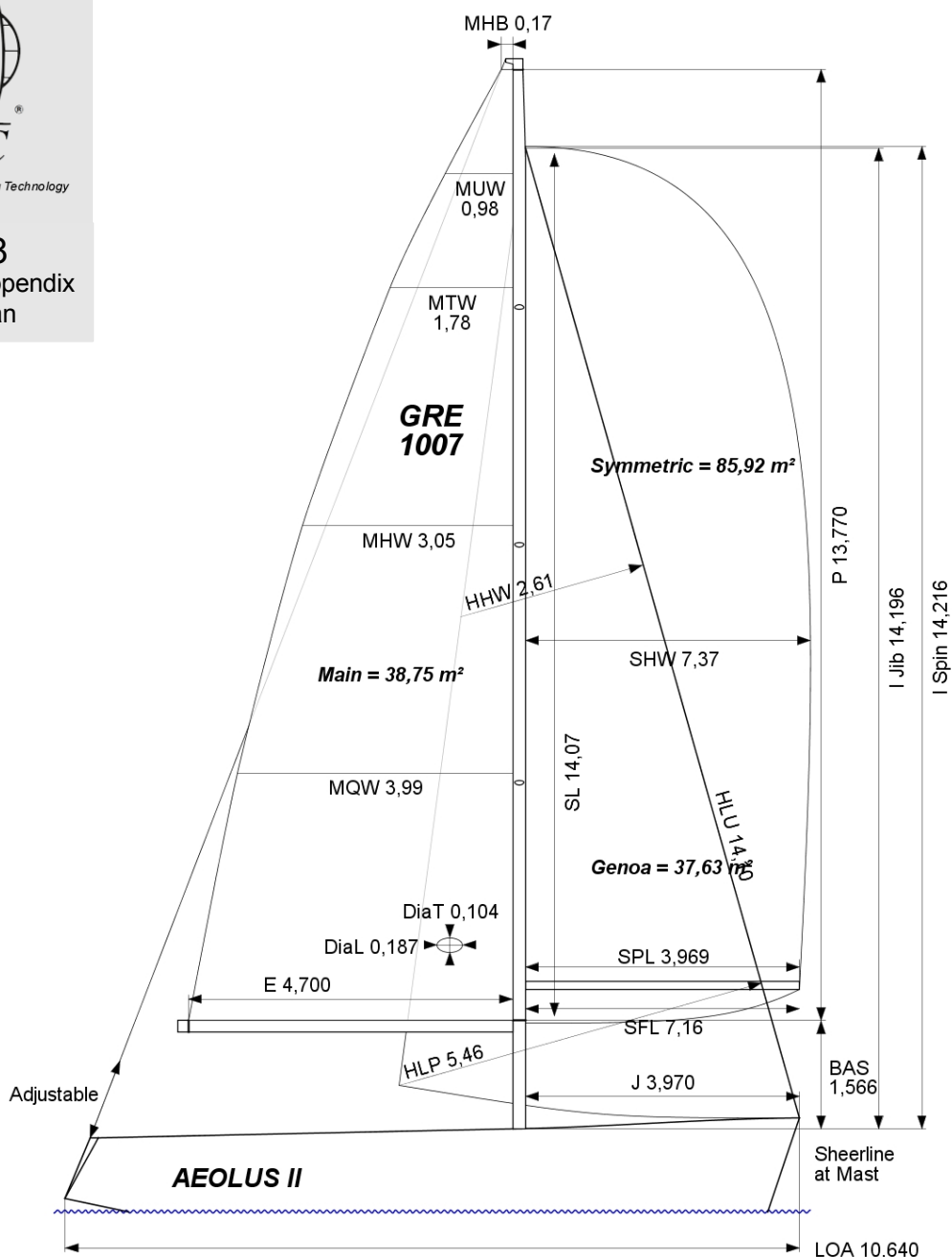
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>KALATZIS GRE-21</b>				
Date <b>04/04/2017</b>				
Comment <b>Without the removable cockpit lockers</b>				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	YANMAR	27 HP	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

<b>MEASUREMENT INVENTORY</b>						
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG Condtn Description</i>
1	Tank	FUEL	PVC	70.0	8.70	25.0
2	Tank	WATER	PVC	140.0	5.00	0.0
3	Tank	WATER	PVC	140.0	5.00	0.0
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
1	Battery	44.0	6.90	2 x 70 Ah		
2	Battery		6.40	1 x 74 Ah		
1	Misc	20.0	8.00	Boiler		



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.168	0.98	1.78	3.05	3.99	38.75	AFENDRAS	25/05/2016	QUANTUM	Carbon	

**HEADSAILS (2)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
4	0.08	0.66	1.29	2.61	3.99	5.46	14.10	138%	37.63			AFENDR	28/04/2017	QUANTUM	Carbon	
2	0.11	0.71	1.34	2.63	4.00	5.37	13.80	135%	36.94			KALATZIS	19/03/2010	KAKITSIS	Polyest	

**SYMMETRIC SPINNAKERS (4)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
4	14.07	14.07	14.07	7.37	7.16	85.92	AFENDRAS	25/05/2016	QUANTUM	Nylon	
1	13.94	13.94	13.94	7.25	7.00	83.64	VARVARIGOS	14/03/2013	KAKITSIS	Polyester	
2	13.99	13.99	13.99	7.18	6.88	83.01	KALATSIS	19/03/2010	NORTH	Unknown	0.6
3	13.82	13.82	13.82	7.17	6.97	82.11	KALATSIS	19/03/2010	KAKITSIS	Unknown	0.5

**ASYMMETRIC SPINNAKERS (0)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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