


<b>BOAT</b>
Name <b>ATHINA</b>
Sail Nr <b>GRE-1038</b>

<b>GPH</b>
<b>673,0</b>

<b>HULL</b>
Length Overall <b>11,583 m</b>
Maximum Beam <b>3,604 m</b>
Displacement <b>11,587 kg</b>
Draft <b>3,333 m</b>
IMS Reg. Division <b>Cruiser/Racer</b>
Dynamic Allowance <b>0,994%</b>
Fwd Accommodation <b>Yes</b>
Hull Construction <b>Solid</b>
Carbon Rudder <b>No</b>
Crew Arm Extension
IMS L <b>9,479</b> VCGD <b>-0,103</b> VCGM <b>-0,083</b>
Sink <b>21,47 kg/mm</b> Wetted Area <b>31,80 m<sup>2</sup></b>



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**2011**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>HOOD 38</b>
Designer <b>TED HOOD</b>
Builder <b>WAUQUIEZ</b>
Series <b>01/1981</b>
Age <b>01/1981</b>
Age Allowance <b>0,975%</b>
Offset File <b>HOOD38R.OFF - 31/1/2003 05:15:00</b>
Measurement by <b>ASIMAKOS - 09/05/2007</b>

<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b>			<b>INSHORE</b>		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	<b>673,0</b>			<b>718,5</b>		
Time On Time	<b>0,8915</b>			<b>0,9394</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0,787</b>	<b>109,7</b>		<b>0,713</b>	<b>146,6</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0,8570</b>	<b>1,1444</b>	<b>1,2842</b>	<b>0,6510</b>	<b>0,9394</b>	<b>1,0985</b>

**Rating Office**

Hellenic Sailing Federation  
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Επιτροπή  
Ανοικτής Θαλάσσης  
Ελληνικής  
Ιστιοπλοϊκής Ομοσπονδίας



<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1181,5</b>	<b>940,4</b>	<b>801,7</b>	<b>747,2</b>	<b>718,5</b>	<b>699,9</b>	<b>681,0</b>
52°	<b>760,1</b>	<b>605,6</b>	<b>561,4</b>	<b>537,6</b>	<b>523,4</b>	<b>516,0</b>	<b>507,8</b>
60°	<b>709,2</b>	<b>582,3</b>	<b>546,6</b>	<b>524,9</b>	<b>510,6</b>	<b>502,2</b>	<b>494,2</b>
75°	<b>666,6</b>	<b>565,7</b>	<b>533,4</b>	<b>514,2</b>	<b>499,1</b>	<b>486,9</b>	<b>473,7</b>
90°	<b>656,9</b>	<b>558,9</b>	<b>525,4</b>	<b>503,4</b>	<b>490,6</b>	<b>481,4</b>	<b>466,9</b>
110°	<b>687,3</b>	<b>563,3</b>	<b>525,8</b>	<b>503,7</b>	<b>483,8</b>	<b>467,4</b>	<b>448,7</b>
120°	<b>713,5</b>	<b>577,0</b>	<b>536,5</b>	<b>510,4</b>	<b>490,2</b>	<b>472,0</b>	<b>443,5</b>
135°	<b>825,0</b>	<b>639,5</b>	<b>562,6</b>	<b>529,5</b>	<b>506,7</b>	<b>487,6</b>	<b>454,7</b>
150°	<b>992,5</b>	<b>761,8</b>	<b>619,9</b>	<b>561,1</b>	<b>530,0</b>	<b>507,9</b>	<b>472,4</b>
Run VMG	<b>1146,0</b>	<b>879,6</b>	<b>715,8</b>	<b>623,9</b>	<b>571,8</b>	<b>538,9</b>	<b>497,1</b>

<b>Certificate</b>
Number <b>000601</b>
ORC Ref <b>GRE00018853</b>
Issued On <b>5/5/2011</b>
VPP Ver. <b>2011 1.02</b>
Valid until <b>1/3/2012</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1180,9</b>	<b>920,8</b>	<b>773,7</b>	<b>695,7</b>	<b>653,0</b>	<b>626,3</b>	<b>594,6</b>
Circular Random	<b>944,0</b>	<b>753,2</b>	<b>651,1</b>	<b>592,8</b>	<b>557,9</b>	<b>535,7</b>	<b>509,0</b>
Ocean for PCS	<b>1007,6</b>	<b>787,3</b>	<b>666,1</b>	<b>594,7</b>	<b>550,1</b>	<b>520,5</b>	<b>481,9</b>
Non Spinnaker	<b>1006,2</b>	<b>795,6</b>	<b>681,0</b>	<b>614,3</b>	<b>573,8</b>	<b>548,2</b>	<b>517,8</b>

<b>Crew Weight</b>
Declared <b>550 kg</b>
Default* <b>717 kg</b>
Non Manual Power <b>No</b>

<b>Special Scoring</b>		
	ToD	ToT
Double Handed	<b>673,5</b>	<b>0,8909</b>
Non Spinnaker	<b>705,0</b>	<b>0,8511</b>
N/S Perf. Line	<b>72,7</b>	<b>0,701</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>44,5°</b>	<b>46,7°</b>	<b>40,2°</b>	<b>37,2°</b>	<b>35,4°</b>	<b>34,3°</b>	<b>33,4°</b>
Beat VMG	<b>3,05</b>	<b>3,83</b>	<b>4,49</b>	<b>4,82</b>	<b>5,01</b>	<b>5,14</b>	<b>5,29</b>
52°	<b>4,74</b>	<b>5,94</b>	<b>6,41</b>	<b>6,70</b>	<b>6,88</b>	<b>6,98</b>	<b>7,09</b>
60°	<b>5,08</b>	<b>6,18</b>	<b>6,59</b>	<b>6,86</b>	<b>7,05</b>	<b>7,17</b>	<b>7,29</b>
75°	<b>5,40</b>	<b>6,36</b>	<b>6,75</b>	<b>7,00</b>	<b>7,21</b>	<b>7,39</b>	<b>7,60</b>
90°	<b>5,48</b>	<b>6,44</b>	<b>6,85</b>	<b>7,15</b>	<b>7,34</b>	<b>7,48</b>	<b>7,71</b>
110°	<b>5,24</b>	<b>6,39</b>	<b>6,85</b>	<b>7,15</b>	<b>7,44</b>	<b>7,70</b>	<b>8,02</b>
120°	<b>5,05</b>	<b>6,24</b>	<b>6,71</b>	<b>7,05</b>	<b>7,34</b>	<b>7,63</b>	<b>8,12</b>
135°	<b>4,36</b>	<b>5,63</b>	<b>6,40</b>	<b>6,80</b>	<b>7,11</b>	<b>7,38</b>	<b>7,92</b>
150°	<b>3,63</b>	<b>4,73</b>	<b>5,81</b>	<b>6,42</b>	<b>6,79</b>	<b>7,09</b>	<b>7,62</b>
Run VMG	<b>3,14</b>	<b>4,09</b>	<b>5,03</b>	<b>5,77</b>	<b>6,30</b>	<b>6,68</b>	<b>7,24</b>
Gybe Angles	<b>141,9°</b>	<b>147,5°</b>	<b>149,2°</b>	<b>163,8°</b>	<b>173,2°</b>	<b>179,3°</b>	<b>179,6°</b>

<b>Sails Limitations</b>		
Genoas	Jibs	Spinnakers
<b>3</b>	<b>2</b>	<b>3</b>
Spinnaker configuration <b>Asymmetric-Pole</b>		

<b>Storm Sails Areas</b>	
Heavy Weather Jib	<b>32,35</b>
Storm Jib (JL=10,06)	<b>11,98</b>
Storm Triesail	<b>9,77</b>

<b>Owner</b>

<b>BOAT</b>	
Name <b>ATHINA</b> File <b>GR1038.dxt</b>	Sail Nr <b>GRE-1038</b> Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>1</b>
Inner Forestay <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>13,610</b>	E <b>4,100</b> MDT1 <b>0,188</b> TL <b>2,200</b>
IG <b>15,480</b>	J <b>4,780</b> MDL1 <b>0,236</b> MWT
ISP <b>15,480</b>	SFJ <b>0,000</b> MDT2 <b>0,138</b> MCG
SPS <b>3,940</b>	SPL <b>4,780</b> MDL2 <b>0,160</b> CPW <b>2,660</b>
BAS <b>1,700</b>	TPS <b>4,880</b> MW <b>0,236</b> BD <b>0,146</b>
BAL <b>0,150</b>	FSP <b>0,088</b> GO <b>0,236</b> BWT

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

<b>COMMENTS</b>	
RETRACTABLE FIN UNDER KEEL ALLWAYS FIXED DOWN WHEN SAILING	

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>09/05/2007</b>	SG <b>1,0270</b>	
FFM <b>1,361</b>	FF <b>1,360</b>	SFFP <b>0,555</b>
FAM <b>1,140</b>	FA <b>1,139</b>	SAFP <b>11,038</b>
W1 <b>90,900</b>	PD1 <b>312,0</b>	WD <b>12,963</b>
W2 <b>90,900</b>	PD2 <b>312,0</b>	GSA <b>50,3</b>
W3 <b>90,900</b>	PD3 <b>312,0</b>	RSA <b>7854,0</b>
W4 <b>90,900</b>	PD4 <b>312,0</b>	PLM <b>2583,0</b>
Maximum beam station from stem		<b>6,310</b>
RM Measured / Default		<b>169,6 / 160,3</b>
Limit of positive stability		<b>125,8°</b>
Stability Index		<b>134,1</b>
Freeboard at mast at 4,780		<b>1,185</b>

<b>PROPELLER</b>		
Installation <b>Shaft</b>	PRD <b>0,460</b>	
Type <b>Solid 2 blades</b>	PBW <b>0,145</b>	
Twin Screw <b>No</b>	PIPA <b>0,0238</b>	
PSA <b>21,500</b>	PHL <b>0,033</b>	ST3 <b>0,102</b> ESL <b>0,800</b>
PSD <b>0,030</b>	ST1 <b>0,024</b>	ST4 <b>0,067</b>
PHD <b>0,053</b>	ST2 <b>0,102</b>	ST5 <b>0,170</b>

<b>WATER BALLAST</b>	
N/A	

<b>CENTERBOARD</b>	
N/A	



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<b>SAILS (Maximum Areas)</b>									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula
	0,120	0,82	1,52	2,62	3,43	18,00	32,94	33,41	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0,05	0,84	1,67	3,38	5,16	15,18	6,94	52,04	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF						
	14,97	8,50	8,40					105,79	$SL \cdot (SF + 4 \cdot SMG) / 6$
Asymmetric	SLU	SLE	ASL	AMG	ASF				
	15,34	13,80	14,57	7,44	8,50			92,91	$ASL \cdot (ASF + 4 \cdot AMG) / 6$

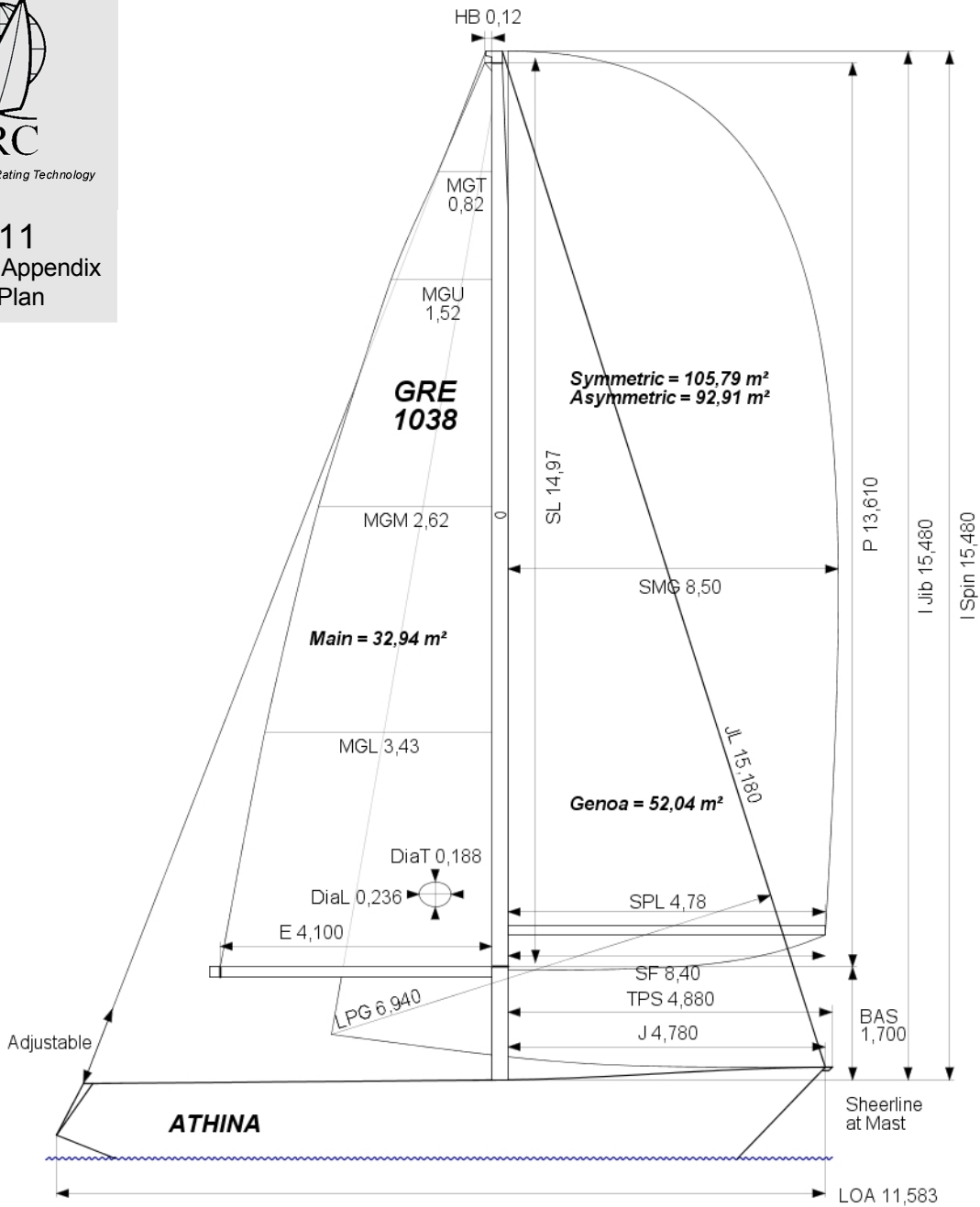
<b>MEASUREMENT INVENTORY</b>			
Measurer	Date	Comment	
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distanc Description</b>
OR	Anchor	180,0	1,00 *Legacy Anchor*
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>	

<b>MEASUREMENT INVENTORY</b>			
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distanc Description</b>



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Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MANSAL**

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0,120	0,82	1,52	2,62	3,43	18,00	32,94					* Copied from legacy

**JIBS / GENOAS**

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
#3	0,05	0,54	1,06	2,12	3,24	4,40	15,18	92%	32,85	MALAKOS	18/05/2009	SAILLOFT	Dacron	
#2	0,08	0,69	1,37	2,88	4,54	6,25	14,80	131%	44,38	MALAKOS	18/05/2009	SAILLOFT	Dacron	
#1	0,05	0,84	1,67	3,38	5,16	6,94	15,18	145%	52,05	MALAKOS	18/05/2009	SAILLOFT	Pentex	

**SYMMETRIC SPINNAKERS**

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	14,97	8,50	8,40	105,79					* Copied from legacy *

**ASYMMETRIC SPINNAKERS**

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	15,34	13,80	14,57	7,44	8,50	92,91	asym				Unknown	