


<b>BOAT</b>
Name <b>Aquila</b> Sail Nr <b>AUT 4548</b>

<b>GPH</b>
<b>464,7</b>

<b>HULL</b>
Length Overall <b>15,804 m</b>
Maximum Beam <b>4,410 m</b>
Displacement <b>7,648 kg</b>
Draft <b>3,198 m</b>
IMS Reg. Division <b>Performance</b>
Dynamic Allowance <b>0,000%</b>
Fwd Accommodation <b>No</b>
Hull Construction <b>Carbon</b>
Carbon Rudder <b>Yes</b>
Crew Arm Extension
IMS L <b>15,594</b> VCGD <b>-0,884</b> VCGM <b>-0,869</b>
Sink <b>33,40 kg/mm</b> Wetted Area <b>41,41 m<sup>2</sup></b>



World Leader in Rating Technology

**2011**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>TP 52</b>
Designer <b>Judi Vrolik</b>
Builder <b>Carbon Lab</b>
Series <b>04.2008</b>
Age <b>04.2008</b>
Age Allowance <b>0,195%</b>
Offset File <b>LUNA10C.OFF - 31.05.2010 17:04:42</b>
Measurement by <b>Ferrer / Muzzi - 27.03.2010</b>

<b>SCORING OPTIONS</b>	<b>OFFSHORE</b>			<b>INSHORE</b>		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	<b>464,7</b>			<b>520,0</b>		
Time On Time	<b>1,2911</b>			<b>1,2980</b>		
Performance Line	PLT <b>1,030</b>	PLD <b>50,0</b>		PLT <b>1,113</b>	PLD <b>210,4</b>	
Triple Number	Low <b>1,2454</b>	Medium <b>1,6448</b>	High <b>1,9159</b>	Low <b>0,9484</b>	Medium <b>1,2867</b>	High <b>1,5250</b>

**Rating Office**

Austrian Sailing Federation  
Seestr. 17b  
7100 Neusiedl am See



AUSTRIAN SAILING FEDERATION  
ORC Rating Office

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>811,2</b>	<b>660,4</b>	<b>593,7</b>	<b>555,0</b>	<b>532,9</b>	<b>533,0</b>	<b>522,7</b>
52°	<b>521,0</b>	<b>433,2</b>	<b>397,1</b>	<b>377,8</b>	<b>366,6</b>	<b>363,5</b>	<b>358,3</b>
60°	<b>487,8</b>	<b>407,3</b>	<b>376,4</b>	<b>360,4</b>	<b>350,0</b>	<b>344,1</b>	<b>340,1</b>
75°	<b>461,4</b>	<b>386,8</b>	<b>353,3</b>	<b>337,1</b>	<b>325,2</b>	<b>316,5</b>	<b>309,9</b>
90°	<b>464,6</b>	<b>390,4</b>	<b>350,7</b>	<b>321,4</b>	<b>305,7</b>	<b>294,6</b>	<b>280,4</b>
110°	<b>466,2</b>	<b>384,6</b>	<b>356,1</b>	<b>330,2</b>	<b>309,1</b>	<b>292,4</b>	<b>252,5</b>
120°	<b>490,6</b>	<b>400,4</b>	<b>349,5</b>	<b>321,6</b>	<b>298,6</b>	<b>281,9</b>	<b>253,2</b>
135°	<b>546,4</b>	<b>441,3</b>	<b>374,7</b>	<b>338,4</b>	<b>303,2</b>	<b>272,2</b>	<b>240,8</b>
150°	<b>660,6</b>	<b>530,5</b>	<b>446,0</b>	<b>393,6</b>	<b>359,4</b>	<b>325,2</b>	<b>257,6</b>
Run VMG	<b>762,7</b>	<b>612,6</b>	<b>515,0</b>	<b>454,5</b>	<b>415,0</b>	<b>375,6</b>	<b>297,4</b>

**Certificate**

Number **I11/11**  
ORC Ref **OeS00000671**  
Issued On **19.06.2011**  
VPP Ver. **2011 1.02**  
Valid until **31.12.2011**

**Crew Weight**

Declared **1.115 kg**  
Default\* **1.111 kg**  
Non Manual Power **No**

**Special Scoring**

	ToD	ToT
Double Handed	<b>470,5</b>	<b>1,2751</b>
Non Spinnaker	<b>505,0</b>	<b>1,1882</b>
N/S Perf. Line	<b>14,1</b>	<b>0,875</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>802,3</b>	<b>647,0</b>	<b>562,4</b>	<b>511,5</b>	<b>479,8</b>	<b>458,4</b>	<b>411,1</b>
Circular Random	<b>649,2</b>	<b>520,9</b>	<b>450,8</b>	<b>408,5</b>	<b>380,8</b>	<b>360,7</b>	<b>330,4</b>
Ocean for PCS	<b>692,7</b>	<b>543,9</b>	<b>459,2</b>	<b>405,4</b>	<b>368,0</b>	<b>339,9</b>	<b>298,3</b>
Non Spinnaker	<b>719,8</b>	<b>571,5</b>	<b>489,0</b>	<b>438,5</b>	<b>405,3</b>	<b>381,9</b>	<b>349,0</b>

**Sails Limitations**

Genoa	Jibs	Spinnakers
<b>0</b>	<b>6</b>	<b>4</b>

Spinnaker configuration  
**Asymmetric-CL**

<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>44,9°</b>	<b>42,1°</b>	<b>40,6°</b>	<b>39,3°</b>	<b>38,4°</b>	<b>38,7°</b>	<b>39,0°</b>
Beat VMG	<b>4,44</b>	<b>5,45</b>	<b>6,06</b>	<b>6,49</b>	<b>6,76</b>	<b>6,75</b>	<b>6,89</b>
52°	<b>6,91</b>	<b>8,31</b>	<b>9,07</b>	<b>9,53</b>	<b>9,82</b>	<b>9,90</b>	<b>10,05</b>
60°	<b>7,38</b>	<b>8,84</b>	<b>9,56</b>	<b>9,99</b>	<b>10,29</b>	<b>10,46</b>	<b>10,59</b>
75°	<b>7,80</b>	<b>9,31</b>	<b>10,19</b>	<b>10,68</b>	<b>11,07</b>	<b>11,37</b>	<b>11,62</b>
90°	<b>7,75</b>	<b>9,22</b>	<b>10,27</b>	<b>11,20</b>	<b>11,78</b>	<b>12,22</b>	<b>12,84</b>
110°	<b>7,72</b>	<b>9,36</b>	<b>10,11</b>	<b>10,90</b>	<b>11,65</b>	<b>12,31</b>	<b>14,26</b>
120°	<b>7,34</b>	<b>8,99</b>	<b>10,30</b>	<b>11,19</b>	<b>12,06</b>	<b>12,77</b>	<b>14,22</b>
135°	<b>6,59</b>	<b>8,16</b>	<b>9,61</b>	<b>10,64</b>	<b>11,87</b>	<b>13,23</b>	<b>14,95</b>
150°	<b>5,45</b>	<b>6,79</b>	<b>8,07</b>	<b>9,15</b>	<b>10,02</b>	<b>11,07</b>	<b>13,98</b>
Run VMG	<b>4,72</b>	<b>5,88</b>	<b>6,99</b>	<b>7,92</b>	<b>8,67</b>	<b>9,59</b>	<b>12,10</b>
Gybe Angles	<b>138,4°</b>	<b>138,2°</b>	<b>143,9°</b>	<b>146,6°</b>	<b>146,3°</b>	<b>141,6°</b>	<b>142,6°</b>

**Storm Sails Areas**

Heavy Weather Jib **52,52**  
Storm Jib (JL=12,82) **19,45**  
Storm Triesail **25,91**

**Owner**

Felix Riedl Management & Financial  
Consulting GmbH  
Raiffeisenweg 26  
8662 Mitterdorf / Austria

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

Signature

<b>BOAT</b>	
Name <b>Aquila</b> File <b>AJT4548.dxt</b>	Sail Nr <b>AJT 4548</b> Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Forward</b>	Spreaders <b>3</b>
Inner Forestay <b>None Fitted</b>	Runners <b>0</b>
Carbon Mast <b>Yes</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>20,422</b>	E <b>7,250</b> MDT1 <b>0,130</b> TL <b>2,580</b>
IG <b>19,714</b>	J <b>6,188</b> MDL1 <b>0,300</b> MWT <b>296,00</b>
ISP <b>22,399</b>	SFJ <b>0,410</b> MDT2 <b>0,092</b> MCG <b>6,880</b>
SPS	SPL MDL2 <b>0,150</b> CPW
BAS <b>2,134</b>	TPS <b>8,330</b> MW <b>0,300</b> BD <b>0,350</b>
BAL <b>0,152</b>	FSP <b>0,056</b> GO <b>0,303</b> BWT

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

<b>COMMENTS</b>


<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>03.07.2006</b>		SG <b>1,0260</b>
FFM <b>1,458</b>	FF <b>1,458</b>	SFFP <b>0,468</b>
FAM <b>1,145</b>	FA <b>1,145</b>	SAFP <b>14,269</b>
W1 <b>124,10</b>	PD1 <b>500,8</b>	WD <b>19,670</b>
W2 <b>124,10</b>	PD2 <b>499,4</b>	GSA <b>1,0</b>
W3 <b>124,10</b>	PD3 <b>499,4</b>	RSA <b>1,0</b>
W4 <b>124,10</b>	PD4 <b>499,5</b>	PLM <b>9000,0</b>
Maximum beam station from stem		<b>11,774</b>
RM Measured / Default		<b>384,6 / 344,2</b>
Limit of positive stability		<b>139,5°</b>
Stability Index		<b>138,6</b>
Freeboard at mast at 6,598		<b>1,246</b>

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0,450</b>	
Type <b>Folding</b>	PBW <b>0,115</b>	
Twin Screw <b>No</b>	PIPA <b>0,0033</b>	
ST1 <b>0,047</b>	ST3	
ST2 <b>0,177</b>	ST4 <b>0,102</b>	
	ST5 <b>0,275</b>	
	EDL <b>0,700</b>	

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

<b>CENTERBOARD</b>	
N/A	


<b>SAILS (Maximum Areas)</b>										
<b>Mainsail</b>	<b>HB</b>	<b>MGT</b>	<b>MGU</b>	<b>MGM</b>	<b>MGL</b>	<b>MSW</b>	<b>Area</b>	<b>Area (r)</b>	<b>Formula</b>	
	1,250	2,17	3,19	4,78	6,08	41,26	93,30	95,63	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
<b>Jib/Genoa</b>	<b>JH</b>	<b>JGT</b>	<b>JGU</b>	<b>JGM</b>	<b>JGL</b>	<b>JL</b>	<b>LPG</b>			
	0,14	0,90	1,70	3,20	4,73	20,06	6,29	64,24	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
<b>Asymmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>ASL</b>	<b>AMG</b>	<b>ASF</b>					
	24,96	21,05	23,01	13,67	13,58			261,72	ASL · (ASF + 4·AMG) / 6	



**2011**  
IMS Measurement  
Certificate

**Certificate**

Number **I11/11**  
ORC Ref **OeS00000671**  
Issued On **19.06.2011**  
VPP Ver. **2011 1.02**  
Valid until **31.12.2011**

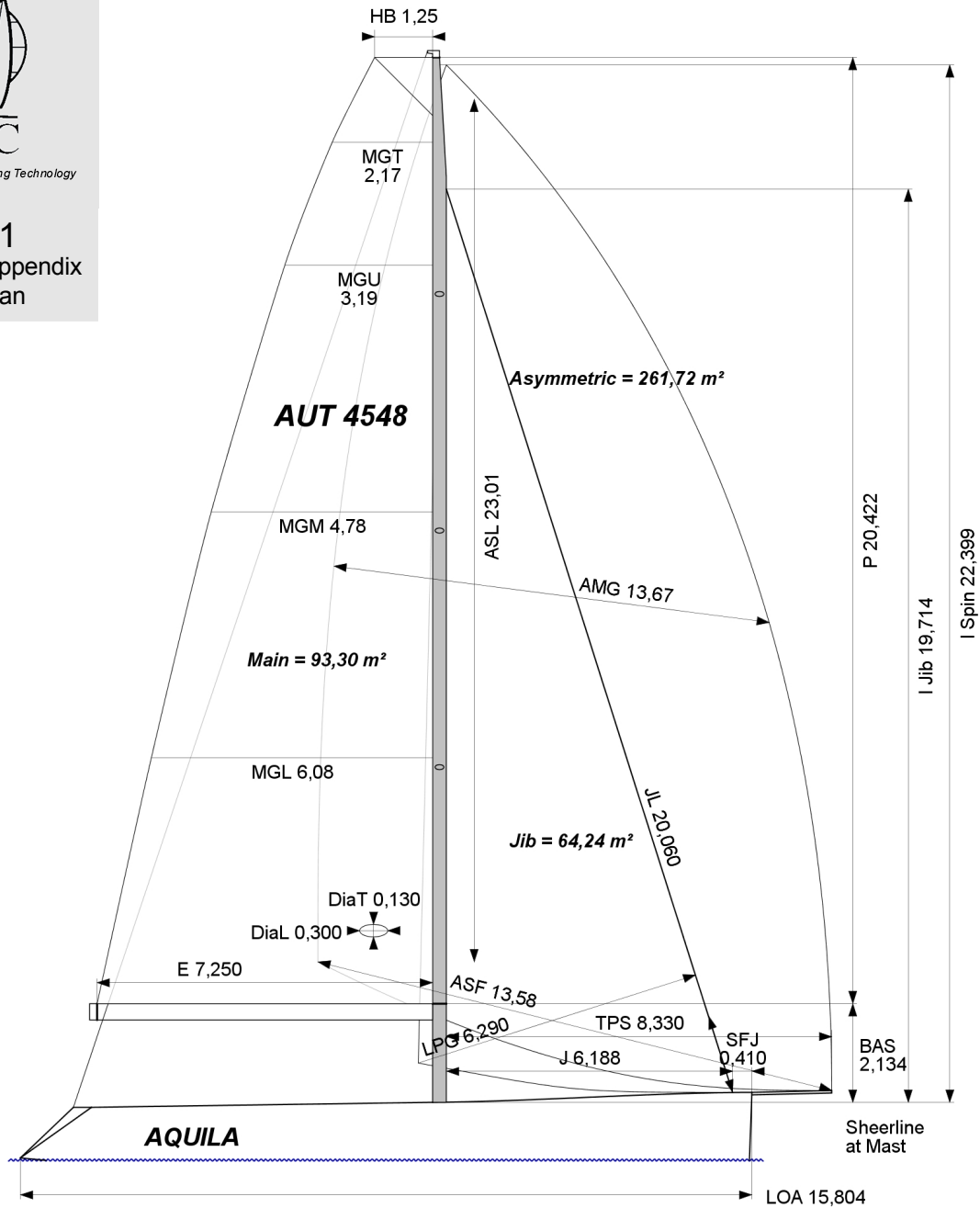


**AUSTRIAN SAILING FEDERATION**  
ORC Rating Office



World Leader in Rating Technology

2011  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL**

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
MN3	1,250	2,17	3,19	4,78	6,08	41,26	93,30	Mangold			Unknown	

**JIBS / GENOAS**

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
L1.2	0,14	0,90	1,70	3,20	4,73	6,29	20,06	102%	64,25				Unknown	

**SYMMETRIC SPINNAKERS**

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
----	----	-----	----	------	----------	-----------	-------------	----------	---------

**ASYMMETRIC SPINNAKERS**

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A4.2	24,82	22,34	23,58	12,64	13,58	252,07	asym	Mangold			Unknown	
A2.3	24,96	21,05	23,01	13,67	13,58	261,72	asym	Mangold			Unknown	