

<b>BOAT</b>
Name <b>AURICA</b>
Sail Nr <b>ITA-16602</b>

<b>GPH</b>
<b>637.6</b>

<b>HULL</b>	Length Overall	<b>9.515 m</b>
	Maximum Beam	<b>3.208 m</b>
	Displacement	<b>4,091 kg</b>
	Draft	<b>1.935 m</b>
	IMS Reg. Division	<b>Cruiser/Racer</b>
	Dynamic Allowance	<b>0.107%</b>
	Fwd Accommodation	<b>Yes</b>
	Hull Construction	<b>Solid</b>
	Carbon Rudder	<b>No</b>
	Crew Arm Extension	
IMS L	<b>9.077</b>	VCGD <b>0.165</b> VCGM <b>0.146</b>
Sink	<b>17.02 kg/mm</b>	Wetted Area <b>22.04 m<sup>2</sup></b>



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**2013**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>FIRST 30</b>
Designer <b>KOUYOUMDJIAN</b>
Builder <b>BENETEAU</b>
Series <b>05/2010</b>
Age <b>08/2011</b>
Age Allowance <b>0.098%</b>
Offset File <b>F244.OFF - 9/6/2013 07:31:04</b>
Measurement by <b>AVETA - 03/11/2011</b>

<b>SCORING OPTIONS</b>						
	<b>OFFSHORE COASTAL / LONG DISTANCE</b>			<b>INSHORE WINDWARD / LEEWARD</b>		
Time On Distance	<b>614.3</b>			<b>694.9</b>		
Time On Time	<b>0.9767</b>			<b>0.9714</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0.854</b>	<b>122.0</b>		<b>0.827</b>	<b>207.3</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0.9274</b>	<b>1.1931</b>	<b>1.3353</b>	<b>0.7078</b>	<b>0.9653</b>	<b>1.1173</b>

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<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1076.5</b>	<b>892.6</b>	<b>790.1</b>	<b>743.5</b>	<b>718.9</b>	<b>707.3</b>	<b>713.3</b>
52°	<b>698.8</b>	<b>586.9</b>	<b>532.6</b>	<b>516.7</b>	<b>508.6</b>	<b>504.1</b>	<b>501.1</b>
60°	<b>657.0</b>	<b>558.3</b>	<b>516.4</b>	<b>501.9</b>	<b>494.7</b>	<b>490.2</b>	<b>485.5</b>
75°	<b>624.9</b>	<b>538.3</b>	<b>505.9</b>	<b>485.6</b>	<b>473.3</b>	<b>466.6</b>	<b>460.3</b>
90°	<b>603.7</b>	<b>521.8</b>	<b>495.4</b>	<b>485.1</b>	<b>465.8</b>	<b>449.6</b>	<b>433.4</b>
110°	<b>624.6</b>	<b>528.8</b>	<b>491.2</b>	<b>463.0</b>	<b>438.3</b>	<b>427.9</b>	<b>410.2</b>
120°	<b>645.7</b>	<b>539.3</b>	<b>502.4</b>	<b>476.5</b>	<b>449.5</b>	<b>422.5</b>	<b>388.5</b>
135°	<b>736.8</b>	<b>605.5</b>	<b>533.1</b>	<b>499.8</b>	<b>474.2</b>	<b>447.6</b>	<b>394.5</b>
150°	<b>888.8</b>	<b>709.2</b>	<b>599.3</b>	<b>532.5</b>	<b>500.6</b>	<b>476.0</b>	<b>425.9</b>
Run VMG	<b>1026.3</b>	<b>818.9</b>	<b>690.2</b>	<b>600.1</b>	<b>539.8</b>	<b>505.7</b>	<b>456.6</b>

<b>Certificate</b>
Number <b>166021</b>
ORC Ref <b>ITA00012017</b>
Issued On <b>7/5/2013</b>
VPP Ver. <b>2013 1.01</b>
Valid until <b>31/12/2013</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1051.4</b>	<b>855.8</b>	<b>740.1</b>	<b>671.8</b>	<b>629.4</b>	<b>606.5</b>	<b>584.9</b>
Circular Random	<b>874.8</b>	<b>708.0</b>	<b>618.8</b>	<b>567.2</b>	<b>535.6</b>	<b>515.2</b>	<b>490.3</b>
Ocean for PCS	<b>933.9</b>	<b>740.3</b>	<b>632.9</b>	<b>567.5</b>	<b>524.7</b>	<b>494.3</b>	<b>450.7</b>
Non Spinnaker	<b>938.5</b>	<b>752.3</b>	<b>651.3</b>	<b>592.1</b>	<b>555.7</b>	<b>532.3</b>	<b>504.9</b>

<b>Crew Weight</b>
Declared <b>480 kg</b>
Default* <b>566 kg</b>
Non Manual Pwr <b>No</b>

<b>Special Scoring</b>
ToD ToT
D. Hand OSN <b>619.9 0.9679</b>
Non Spin. OSN <b>645.6 0.9293</b>
N/S Perf. Line <b>88.2 0.761</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>43.9°</b>	<b>42.7°</b>	<b>41.9°</b>	<b>39.7°</b>	<b>39.0°</b>	<b>38.6°</b>	<b>39.7°</b>
Beat VMG	<b>3.34</b>	<b>4.03</b>	<b>4.56</b>	<b>4.84</b>	<b>5.01</b>	<b>5.09</b>	<b>5.05</b>
52°	<b>5.15</b>	<b>6.13</b>	<b>6.76</b>	<b>6.97</b>	<b>7.08</b>	<b>7.14</b>	<b>7.18</b>
60°	<b>5.48</b>	<b>6.45</b>	<b>6.97</b>	<b>7.17</b>	<b>7.28</b>	<b>7.34</b>	<b>7.42</b>
75°	<b>5.76</b>	<b>6.69</b>	<b>7.12</b>	<b>7.41</b>	<b>7.61</b>	<b>7.72</b>	<b>7.82</b>
90°	<b>5.96</b>	<b>6.90</b>	<b>7.27</b>	<b>7.42</b>	<b>7.73</b>	<b>8.01</b>	<b>8.31</b>
110°	<b>5.76</b>	<b>6.81</b>	<b>7.33</b>	<b>7.78</b>	<b>8.21</b>	<b>8.41</b>	<b>8.78</b>
120°	<b>5.58</b>	<b>6.68</b>	<b>7.17</b>	<b>7.55</b>	<b>8.01</b>	<b>8.52</b>	<b>9.27</b>
135°	<b>4.89</b>	<b>5.95</b>	<b>6.75</b>	<b>7.20</b>	<b>7.59</b>	<b>8.04</b>	<b>9.13</b>
150°	<b>4.05</b>	<b>5.08</b>	<b>6.01</b>	<b>6.76</b>	<b>7.19</b>	<b>7.56</b>	<b>8.45</b>
Run VMG	<b>3.51</b>	<b>4.40</b>	<b>5.22</b>	<b>6.00</b>	<b>6.67</b>	<b>7.12</b>	<b>7.88</b>
Gybe Angles	<b>142.9°</b>	<b>149.7°</b>	<b>153.1°</b>	<b>163.7°</b>	<b>175.6°</b>	<b>178.6°</b>	<b>178.3°</b>

<b>Sails Limitations</b>
Genoas <b>0</b>   Jibs <b>4</b>   Spinnakers <b>3</b>
Spinnaker configuration <b>Asymmetric-Pole</b>

<b>Storm Sails Areas</b>
Heavy Weather Jib <b>22.84</b>
Storm Jib (JL=8.45) <b>8.46</b>
Storm Trysail <b>9.47</b>

<b>Owner</b>

<b>BOAT</b>	
Name <b>AURICA</b>	Sail Nr <b>ITA-16602</b>
File <b>I16602.dxt</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>03/11/2011</b>		SG <b>1.0270</b>	
FFM <b>1.273</b>	FF <b>1.270</b>	SFFP <b>0.350</b>	
FAM <b>0.979</b>	FA <b>0.987</b>	SAFP <b>9.142</b>	
W1 <b>61.200</b>	PD1 <b>582.8</b>	WD <b>11.260</b>	
W2 <b>61.200</b>	PD2 <b>580.1</b>	GSA <b>1.0</b>	
W3 <b>61.200</b>	PD3 <b>582.2</b>	RSA <b>1.0</b>	
W4 <b>61.200</b>	PD4 <b>582.7</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>5.342 / 5.550</b>	
Maximum beam station from stem		<b>7.222</b>	
RM Measured / Default		<b>93.3 / 97.8</b>	
Limit of positive stability / Stab.Index		<b>113.1° / 112.5</b>	
Freeboard at mast at 4.160		<b>1.139</b>	



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<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>		
Inner Stay <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>Yes</b>		
Articulated Bowsprit <b>No</b>			
P <b>12.300</b>	E <b>4.400</b>	MDT1 <b>0.113</b>	TL <b>1.280</b>
IG <b>12.790</b>	J <b>4.160</b>	MDL1 <b>0.176</b>	MWT
ISP <b>13.410</b>	SFJ	MDT2 <b>0.113</b>	MCG
SPS <b>1.900</b>	SPL <b>4.200</b>	MDL2 <b>0.145</b>	CPW
BAS <b>1.660</b>	TPS <b>4.560</b>	MW <b>0.145</b>	BD <b>0.133</b>
BAL	FSP <b>0.060</b>	GO <b>0.214</b>	BWT

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0.406</b>	
Type <b>Folding</b>	PBW <b>0.110</b>	
Twin Screw <b>No</b>	PIPA <b>0.0031</b>	
ST1 <b>0.047</b>	ST3 <b>0.170</b>	ST5 <b>0.290</b>
ST2 <b>0.170</b>	ST4 <b>0.098</b>	EDL <b>2.540</b>

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

<b>MOVEABLE BALLAST</b>		
N/A		

<b>COMMENTS</b>	
NO BACKSTAY	

<b>CENTERBOARD</b>		
N/A		



Invalid for racing

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<b>SAILS (Maximum Areas)</b>									
Mainsail	HB	MGT	MGU	MGM	MGL	Area	Area (r)	Formula	
	0.820	1.36	1.97	2.90	3.66	34.20	35.07	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0.09	0.73	1.36	2.39	3.41	12.90	4.40	30.14	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)
Symmetric	SL	SMG	SF						
	13.02	7.40	7.23	79.92					
	SL · (SF + 4·SMG) / 6								
Asymmetric	SLU	SLE	ASL	AMG	ASF				
	13.60	12.43	13.02	7.57	7.77	82.54			
	ASL · (ASF + 4·AMG) / 6								

<b>Code Zero</b>	Not Available
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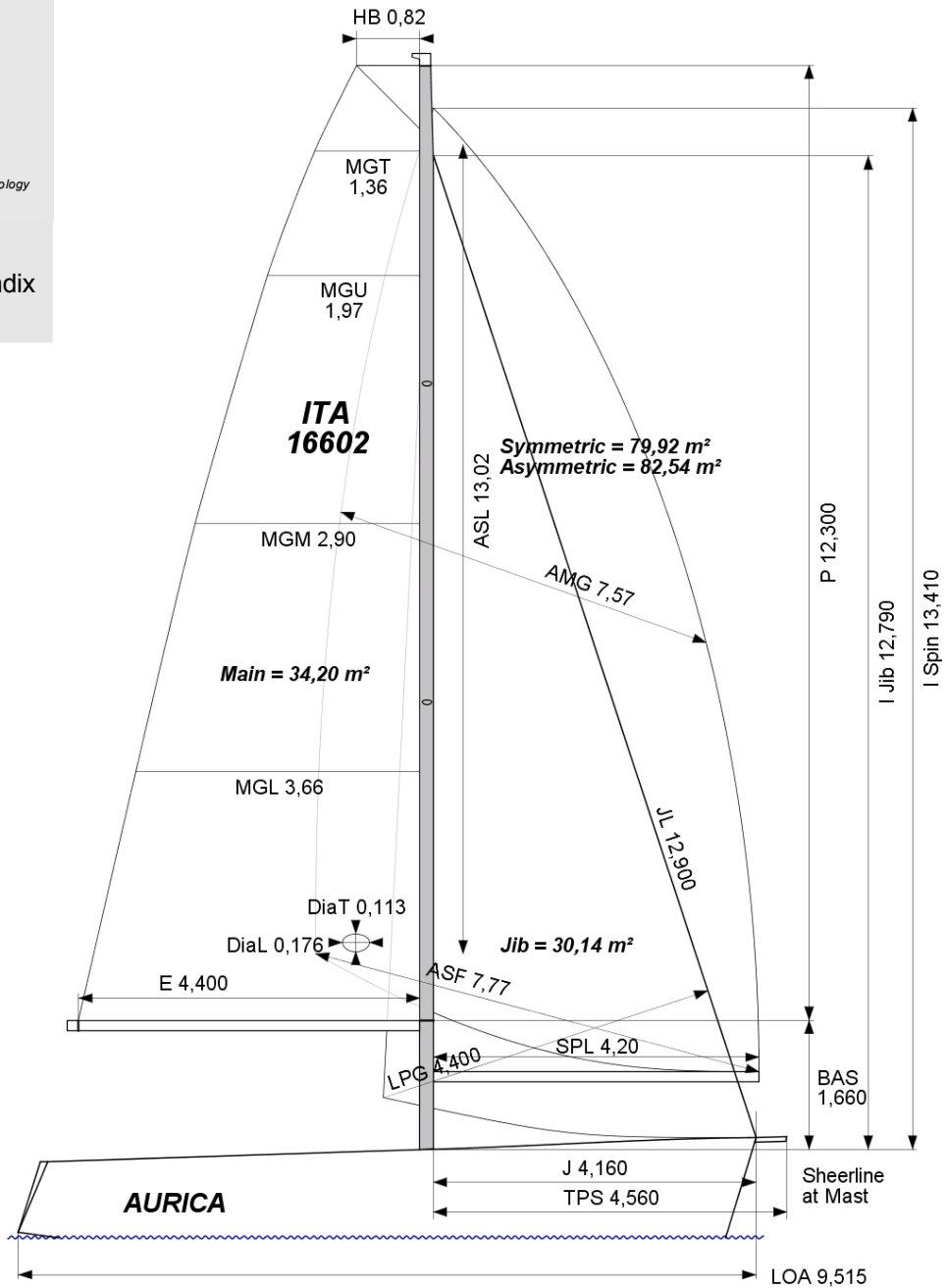
<b>MEASUREMENT INVENTORY</b>					
Measurer <b>AVETA 164</b>					
Date <b>03/11/2011</b>					
Comment					
Id	Item	Weight	Distance	VCG	Description
A	Anchor	16.0	7.83	0.00	
A	Chain	10.5	7.83	0.00	
A	Tools	5.0	7.48	0.00	
B	Tools	7.0	7.88	0.00	
Id	Item	Maker	Model		
A	Engine	VOLVO	20 CV		
Id	Item	Weight	Description		
A	Deck Gear	15.0			

<b>MEASUREMENT INVENTORY</b>								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
A	Tank	ACQUA	PVC	160.0	1.86	0.00	0.0	VUOTO
B	Tank	GASOLIO	PVC	30.0	7.00	0.00	12.0	LITRI
C	Tank	NERE	PVC	64.0	6.80	0.00	0.0	VUOTO
Id	Item	Weight	Distance	VCG	Description			
A	Battery	0.0	3.91	0.00	2 DA 70 AH			
B	Battery	0.0	6.52	0.00	1 DA 70 AH			
A	Misc	15.0	1.00	0.00	SALPAANCORE			
B	Misc	0.0	3.30	0.00	BOILER 25 LT			
C	Misc	0.0	8.80	0.00	ATTUATORE PILOTA AUT.			



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL**

Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.820	1.36	1.97	2.90	3.66	34.20	AVETA	03/11/2011	NORTH	Unknown	

**JIBS / GENOAS**

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.09	0.73	1.36	2.39	3.41	4.40	12.90	106%	30.15	AVETA	03/11/2011	BANKS	Unknown	J2
B	0.07	0.00	0.00	0.00	0.00	4.42	12.28	106%	27.53	AVETA	03/11/2011		Unknown	

**SYMMETRIC SPINNAKERS**

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	13.02	7.40	7.23	79.92	AVETA	03/11/2011	NORTH	Unknown	
A	12.96	7.42	7.20	79.66	AVETA	03/11/2011	NORTH	Unknown	

**ASYMMETRIC SPINNAKERS**

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A	13.60	12.43	13.02	7.57	7.77	82.54	asym	AVETA	03/11/2011	NORTH	Unknown	