

<b>BOAT</b>
Name <b>SEBRALA 2</b>
Sail Nr <b>ESP-8154</b>

<b>GPH</b>
<b>617,4</b>

<b>HULL</b>	Length Overall	<b>14,630 m</b>
	Maximum Beam	<b>4,662 m</b>
	Displacement	<b>15.149 kg</b>
	Draft	<b>2,022 m</b>
	IMS Reg. Division	<b>Cruiser/Racer</b>
	Dynamic Allowance	<b>0,433%</b>
	Fwd Accommodation	<b>Yes</b>
	Hull Construction	<b>Solid</b>
	Carbon Rudder	<b>No</b>
	Crew Arm Extension	
	IMS L	<b>13,055</b>
	VCGD	<b>0,926</b>
	VCGM	<b>0,239</b>
	Sink	<b>35,12 kg/m<sup>2</sup></b>
	Wetted Area	<b>45,80 m<sup>2</sup></b>



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**2012**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>BAVARIA 50</b>
Designer <b>J&amp;J DESIGN</b>
Builder <b>BAVARIA YACHTBAU</b>
Series <b>05/1999</b>
Age <b>10/1999</b>
Age Allowance <b>0,845%</b>
Offset File <b>BAVAR50.OFF - 25/1/2014 15:56:20</b>
Measurement by <b>GVALVERDE - 28/07/2010</b>

<b>SCORING OPTIONS</b>						
	<b>OFFSHORE</b>			<b>INSHORE</b>		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	<b>590,7</b>			<b>682,8</b>		
Time On Time	<b>1,0157</b>			<b>0,9886</b>		
Performance Line	PLT	PLD		PLT	PLD	
	<b>0,773</b>	<b>53,0</b>		<b>0,724</b>	<b>124,8</b>	
Triple Number	Low	Medium	High	Low	Medium	High
	<b>0,8687</b>	<b>1,1850</b>	<b>1,4651</b>	<b>0,6893</b>	<b>0,9781</b>	<b>1,1761</b>

**Rating Office**

Offshore  
Racing  
Congress



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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>1173,3</b>	<b>936,6</b>	<b>813,6</b>	<b>747,4</b>	<b>707,7</b>	<b>681,5</b>	<b>655,3</b>
52°	<b>732,2</b>	<b>587,7</b>	<b>518,5</b>	<b>483,9</b>	<b>464,6</b>	<b>452,9</b>	<b>440,7</b>
60°	<b>665,5</b>	<b>542,6</b>	<b>488,9</b>	<b>460,0</b>	<b>442,4</b>	<b>432,6</b>	<b>422,1</b>
75°	<b>612,9</b>	<b>511,6</b>	<b>467,1</b>	<b>442,6</b>	<b>426,1</b>	<b>413,3</b>	<b>398,5</b>
90°	<b>593,5</b>	<b>493,5</b>	<b>452,1</b>	<b>428,9</b>	<b>416,9</b>	<b>408,1</b>	<b>391,4</b>
110°	<b>611,8</b>	<b>501,0</b>	<b>450,0</b>	<b>422,6</b>	<b>404,1</b>	<b>388,7</b>	<b>368,8</b>
120°	<b>632,2</b>	<b>508,8</b>	<b>459,6</b>	<b>432,9</b>	<b>412,9</b>	<b>395,2</b>	<b>366,1</b>
135°	<b>733,0</b>	<b>575,5</b>	<b>497,1</b>	<b>456,2</b>	<b>430,7</b>	<b>411,4</b>	<b>379,7</b>
150°	<b>881,6</b>	<b>683,2</b>	<b>568,1</b>	<b>500,2</b>	<b>460,9</b>	<b>435,2</b>	<b>399,5</b>
Run VMG	<b>1017,9</b>	<b>788,9</b>	<b>656,0</b>	<b>573,6</b>	<b>517,2</b>	<b>478,1</b>	<b>429,5</b>

**Certificate**

Number **815401**  
ORC Ref **ESP00004080**  
Issued On **12/9/2012**  
VPP Ver. **2012 1.01**  
Valid until **31/12/2012**  
**INVALID LPS < 103°**

**Crew Weight**

Declared **1.020 kg**  
Default\* **1.018 kg**  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
D. Hand OSN	<b>593,3</b>	<b>1,0112</b>
Non Spin. OSN	<b>629,1</b>	<b>0,9538</b>
N/S Perf. Line	<b>18,3</b>	<b>0,677</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1095,6</b>	<b>862,8</b>	<b>734,8</b>	<b>660,5</b>	<b>612,4</b>	<b>579,8</b>	<b>542,4</b>
Circular Random	<b>875,1</b>	<b>695,5</b>	<b>597,4</b>	<b>539,3</b>	<b>502,8</b>	<b>478,6</b>	<b>448,2</b>
Ocean for PCS	<b>937,5</b>	<b>728,5</b>	<b>610,7</b>	<b>538,1</b>	<b>490,4</b>	<b>456,8</b>	<b>410,9</b>
Non Spinnaker	<b>946,9</b>	<b>745,5</b>	<b>633,7</b>	<b>566,2</b>	<b>523,2</b>	<b>494,3</b>	<b>458,9</b>

**Sails Limitations**

Genoa's	Jibs	Spinnakers
<b>1</b>	<b>0</b>	<b>3</b>

Spinnaker configuration  
**Asymmetric-Pole**

<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>48,1°</b>	<b>47,9°</b>	<b>46,4°</b>	<b>45,2°</b>	<b>44,2°</b>	<b>42,7°</b>	<b>42,0°</b>
Beat VMG	<b>3,07</b>	<b>3,84</b>	<b>4,42</b>	<b>4,82</b>	<b>5,09</b>	<b>5,28</b>	<b>5,49</b>
52°	<b>4,92</b>	<b>6,13</b>	<b>6,94</b>	<b>7,44</b>	<b>7,75</b>	<b>7,95</b>	<b>8,17</b>
60°	<b>5,41</b>	<b>6,64</b>	<b>7,36</b>	<b>7,83</b>	<b>8,14</b>	<b>8,32</b>	<b>8,53</b>
75°	<b>5,87</b>	<b>7,04</b>	<b>7,71</b>	<b>8,13</b>	<b>8,45</b>	<b>8,71</b>	<b>9,03</b>
90°	<b>6,07</b>	<b>7,29</b>	<b>7,96</b>	<b>8,39</b>	<b>8,63</b>	<b>8,82</b>	<b>9,20</b>
110°	<b>5,88</b>	<b>7,19</b>	<b>8,00</b>	<b>8,52</b>	<b>8,91</b>	<b>9,26</b>	<b>9,76</b>
120°	<b>5,69</b>	<b>7,08</b>	<b>7,83</b>	<b>8,32</b>	<b>8,72</b>	<b>9,11</b>	<b>9,83</b>
135°	<b>4,91</b>	<b>6,25</b>	<b>7,24</b>	<b>7,89</b>	<b>8,36</b>	<b>8,75</b>	<b>9,48</b>
150°	<b>4,08</b>	<b>5,27</b>	<b>6,34</b>	<b>7,20</b>	<b>7,81</b>	<b>8,27</b>	<b>9,01</b>
Run VMG	<b>3,54</b>	<b>4,56</b>	<b>5,49</b>	<b>6,28</b>	<b>6,96</b>	<b>7,53</b>	<b>8,38</b>
Gybe Angles	<b>142,0°</b>	<b>144,1°</b>	<b>148,6°</b>	<b>156,1°</b>	<b>163,6°</b>	<b>168,4°</b>	<b>173,7°</b>

**Storm Sails Areas**

Heavy Weather Jib **44,52**  
Storm Jib (JL=11,80) **16,49**  
Storm Trysail **16,66**

**Owner**

<b>BOAT</b>	
Name <b>SEBRALA2</b>	Sail Nr <b>ESP-8154</b>
File <b>(0)</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>Fixed</b>	Runners <b>0</b>
Carbon Mast <b>No</b>	Jumper Struts <b>None</b>
Taper Hollows <b>No</b>	Jib Furler <b>Yes</b>
Fiber Rigging <b>No</b>	Main Furler <b>Yes</b>
Lenticular Rigging <b>No</b>	Without Backstay <b>No</b>
Articulated Bowsprit <b>No</b>	
P <b>17,000</b>	E <b>5,600</b> MDT1 <b>0,146</b> TL <b>0,000</b>
IG <b>18,100</b>	J <b>6,070</b> MDL1 <b>0,285</b> MWT
ISP <b>18,170</b>	SFJ MDT2 <b>0,146</b> MCG
SPS <b>4,860</b>	SPL <b>6,070</b> MDL2 <b>0,285</b> CPW
BAS <b>1,900</b>	TPS <b>7,170</b> MW <b>0,285</b> BD <b>0,260</b>
BAL <b>0,152</b>	FSP <b>0,100</b> GO <b>0,305</b> BWT

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


<b>COMMENTS</b>	
HELICE FIJA 3 PALAS	

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>17/01/2012</b>	SG <b>1,0250</b>	
FFM <b>1,520</b>	FF <b>1,520</b>	SFFP <b>0,940</b>
FAM <b>1,105</b>	FA <b>1,105</b>	SAFP <b>13,425</b>
W1 <b>140,00</b>	PD1 <b>478,1</b>	WD <b>15,900</b>
W2 <b>140,00</b>	PD2 <b>470,0</b>	GSA <b>1,0</b>
W3 <b>140,00</b>	PD3 <b>469,2</b>	RSA <b>1,0</b>
W4 <b>140,00</b>	PD4 <b>468,5</b>	PLM <b>9000,0</b>
LCF from stem on CL / on sheer		<b>8,281 / 0,000</b>
Maximum beam station from stem		<b>9,010</b>
RM Measured / Default		<b>371,9 / 369,0</b>
Limit of positive stability / Stab.Index		<b>101,8° / 109,5</b>
Freeboard at mast at 6,070		<b>1,265</b>

<b>PROPELLER</b>		
Installation <b>Strut</b>	PRD <b>0,520</b>	
Type <b>Feathering 3 blades</b>	PBW <b>0,012</b>	
Twin Screw <b>No</b>	PIPA <b>0,0041</b>	
ST1 <b>0,056</b>	ST3	ST5 <b>0,289</b>
ST2	ST4 <b>0,111</b>	EDL <b>2,720</b>

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


<b>CENTERBOARD</b>	
N/A	



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<b>SAILS (Maximum Areas)</b>								
<b>Mainsail</b>	<b>HB</b>	<b>MGT</b>	<b>MGU</b>	<b>MGM</b>	<b>MGL</b>	<b>Area</b>	<b>Formula</b>	
	0,050	0,70	1,40	2,80	4,20	47,65	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$	
<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>	
	0,05	1,04	2,02	4,08	6,24	17,22	8,40	
							71,42	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
<b>Symmetric</b>	<b>SL</b>	<b>SMG</b>	<b>SF</b>					
	18,20	10,93	10,93					
							165,77	$SL \cdot (SF + 4 \cdot SMG) / 6$
<b>Asymmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>ASL</b>	<b>AMG</b>	<b>ASF</b>			
	19,32	16,53	17,93	10,40	11,00			
							157,14	$ASL \cdot (ASF + 4 \cdot AMG) / 6$

<b>Code Zero</b>	Not Available
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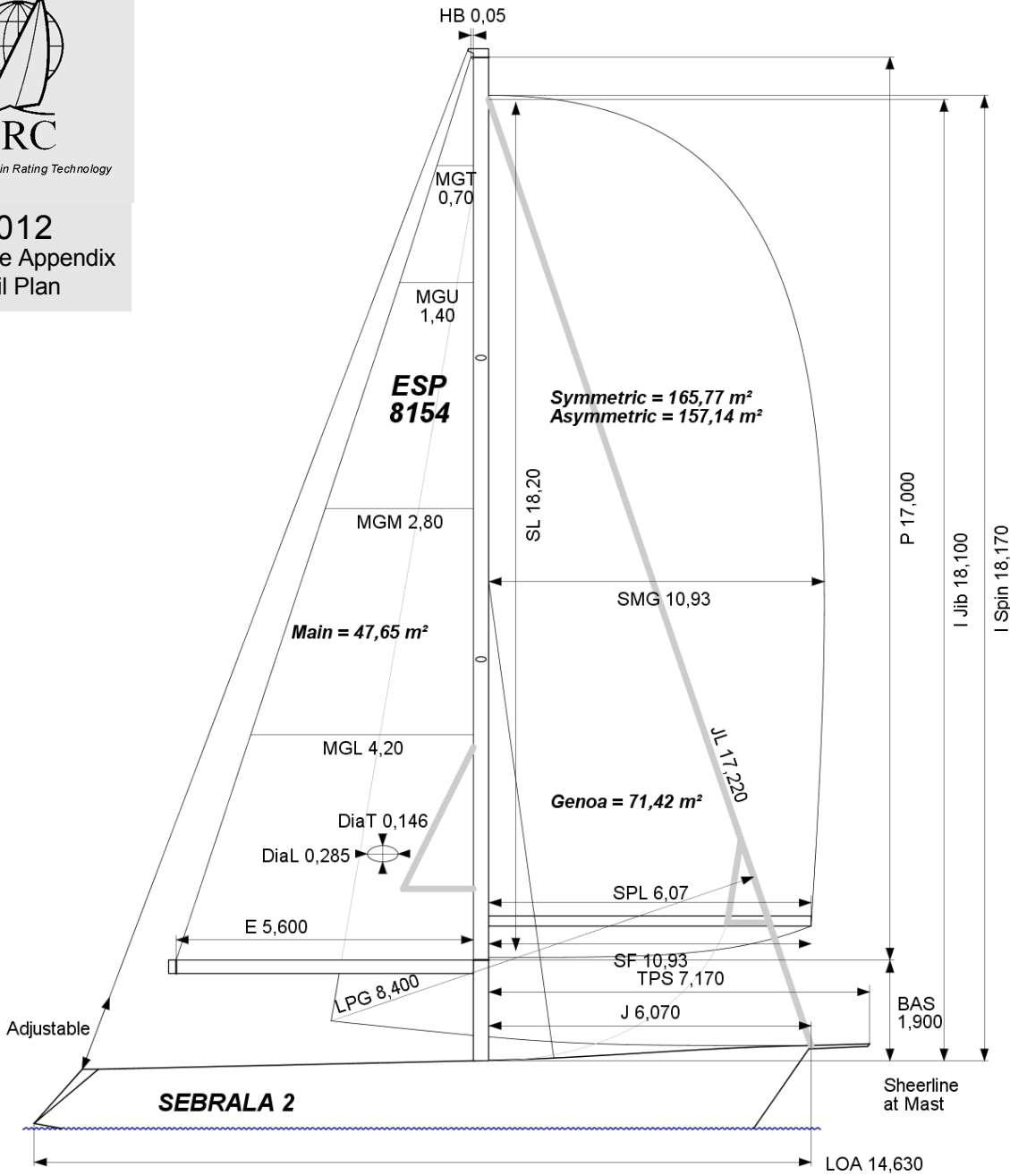
<b>MEASUREMENT INVENTORY</b>				
Measurer	Date	Comment		
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
001	Anchor	37,0	-0,50	Ancla
1	Chain	128,0	1,00	cadena
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>Description</i>

<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</i>	<i>Condtn</i>	<i>Description</i>	
1	Tank	agua		250,0	3,00			camarote proa	
2	Tank	agua		400,0	14,00			0,0	camarote popa
3	Tank	gasoil		320,0	14,00			0,0	reserva
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG</i>	<i>Description</i>				
1	Battery		10,20		3 baterias cofre salon br				
1	Misc	15,0			seguridad (salon)				



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**2012**  
Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

MANSAIL														
Id	HB	MGT	MGU	MGM	MGL	Area	Measurer	Meas.Date	Manufacture	Material	Comment			
001	0,050	0,70	1,40	2,80	4,20	47,65	GVALVERDE	28/07/2010						
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
001	0,05	1,04	2,02	4,08	6,24	8,40	17,22	138%	71,43	GVALVER	13/01/2012			
SYMMETRIC SPINNAKERS														
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	18,20	10,93	10,93	165,77										
ASYMMETRIC SPINNAKERS														
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment		
2	19,32	16,53	17,93	10,40	11,00	157,14	asym	valverde	11/09/2012		Unknown			
1	16,75	15,95	16,35	10,50	11,25	145,11	asym	Panci	20/01/2012		Unknown			