

<b>BOAT</b> Name <b>ALLEGRA</b> Sail Nr <b>GBR-3116</b>	<b>GPH</b> <b>599,1</b>	<b>HULL</b> Length Overall <b>11,924m</b> Maximum Beam <b>3,770m</b> Displacement <b>7.550kg</b> Draft <b>2,436m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0,030%</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 40.7</b> Designer <b>Farr</b> Builder <b>Bennetau</b> Series <b>12/1997</b> Age <b>08/2007</b> Age Allowance <b>0,487%</b> Offset File <b>EFRST407.OFF - 22/11/2000 17:10:00</b> Measurement by <b>Grubiša, Marinov - 31/07/2012</b>		IMSL <b>10,713m</b> VCGD <b>-0,119m</b> Sink <b>22,58kg/mm</b> RL <b>9,240m</b> VCGM <b>0,102m</b> WS <b>30,26m<sup>2</sup></b> LSMO <b>10,653m</b> Displacement/Length ratio <b>6,2450</b>



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**2017**  
ORC International  
Certificate

**Rating Office**  
R.F.E.V.  
Luis de Salazar,9  
28002 Madrid  
crucero@rfev.es



SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time On Distance	<b>583,3</b>			<b>651,3</b>	
Time On Time	<b>1,0287</b>			<b>1,0364</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>687,6</b>	<b>530,6</b>	<b>473,1</b>	<b>893,6</b>	<b>656,0</b>	<b>564,7</b>
Time on Time	<b>0,9817</b>	<b>1,2722</b>	<b>1,4268</b>	<b>0,7554</b>	<b>1,0290</b>	<b>1,1953</b>

TIME ALLOWANCES	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1013,2</b>	<b>843,1</b>	<b>742,2</b>	<b>694,7</b>	<b>672,7</b>	<b>660,5</b>	<b>649,6</b>
52°	<b>662,2</b>	<b>556,4</b>	<b>500,9</b>	<b>481,7</b>	<b>474,0</b>	<b>469,9</b>	<b>465,7</b>
60°	<b>623,8</b>	<b>527,1</b>	<b>485,1</b>	<b>468,3</b>	<b>461,1</b>	<b>457,0</b>	<b>453,2</b>
75°	<b>591,4</b>	<b>506,9</b>	<b>473,9</b>	<b>456,1</b>	<b>443,7</b>	<b>436,5</b>	<b>429,9</b>
90°	<b>591,3</b>	<b>505,1</b>	<b>469,7</b>	<b>453,3</b>	<b>437,4</b>	<b>422,8</b>	<b>405,3</b>
110°	<b>605,6</b>	<b>502,1</b>	<b>463,7</b>	<b>441,6</b>	<b>426,9</b>	<b>416,1</b>	<b>397,7</b>
120°	<b>624,0</b>	<b>514,8</b>	<b>470,3</b>	<b>446,2</b>	<b>423,1</b>	<b>403,3</b>	<b>382,0</b>
135°	<b>693,9</b>	<b>565,1</b>	<b>493,9</b>	<b>462,9</b>	<b>440,9</b>	<b>418,5</b>	<b>375,1</b>
150°	<b>827,7</b>	<b>660,0</b>	<b>558,0</b>	<b>493,5</b>	<b>464,3</b>	<b>443,5</b>	<b>402,2</b>
Run VMG	<b>955,8</b>	<b>762,0</b>	<b>644,4</b>	<b>563,7</b>	<b>513,3</b>	<b>476,6</b>	<b>434,5</b>

**Certificate**  
Number **311601**  
ORC Ref **ESP00020938**  
Issued On **23/01/2017**  
VPP Ver. **2017 1.00**  
Valid until **31/12/2017**

**Crew Weight**  
Declared **625kg**  
Default\* **753kg**  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Double H.GPH	<b>601,9</b>	<b>0,9968</b>
Double H.OSN	<b>587,0</b>	<b>1,0222</b>
Non Spin GPH	<b>628,1</b>	<b>0,9553</b>
Non Spin OSN	<b>611,2</b>	<b>0,9817</b>

Selected Courses	984,4	802,6	693,3	629,2	593,0	568,6	542,1
Windward / Leeward	<b>984,4</b>	<b>802,6</b>	<b>693,3</b>	<b>629,2</b>	<b>593,0</b>	<b>568,6</b>	<b>542,1</b>
Circular Random	<b>824,9</b>	<b>666,3</b>	<b>581,3</b>	<b>532,0</b>	<b>501,8</b>	<b>482,1</b>	<b>457,5</b>
Ocean for PCS	<b>1013,8</b>	<b>783,3</b>	<b>653,2</b>	<b>573,7</b>	<b>522,5</b>	<b>487,2</b>	<b>439,5</b>
Non Spinnaker	<b>876,7</b>	<b>703,1</b>	<b>608,7</b>	<b>553,1</b>	<b>518,5</b>	<b>495,9</b>	<b>467,4</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>4</b>

Velocity Prediction in Knots for True Wind Speeds	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>43,2°</b>	<b>41,9°</b>	<b>41,7°</b>	<b>40,0°</b>	<b>38,8°</b>	<b>38,5°</b>	<b>38,2°</b>
Beat VMG	<b>3,55</b>	<b>4,27</b>	<b>4,85</b>	<b>5,18</b>	<b>5,35</b>	<b>5,45</b>	<b>5,54</b>
52°	<b>5,44</b>	<b>6,47</b>	<b>7,19</b>	<b>7,47</b>	<b>7,60</b>	<b>7,66</b>	<b>7,73</b>
60°	<b>5,77</b>	<b>6,83</b>	<b>7,42</b>	<b>7,69</b>	<b>7,81</b>	<b>7,88</b>	<b>7,94</b>
75°	<b>6,09</b>	<b>7,10</b>	<b>7,60</b>	<b>7,89</b>	<b>8,11</b>	<b>8,25</b>	<b>8,37</b>
90°	<b>6,09</b>	<b>7,13</b>	<b>7,66</b>	<b>7,94</b>	<b>8,23</b>	<b>8,52</b>	<b>8,88</b>
110°	<b>5,94</b>	<b>7,17</b>	<b>7,76</b>	<b>8,15</b>	<b>8,43</b>	<b>8,65</b>	<b>9,05</b>
120°	<b>5,77</b>	<b>6,99</b>	<b>7,65</b>	<b>8,07</b>	<b>8,51</b>	<b>8,93</b>	<b>9,42</b>
135°	<b>5,19</b>	<b>6,37</b>	<b>7,29</b>	<b>7,78</b>	<b>8,17</b>	<b>8,60</b>	<b>9,60</b>
150°	<b>4,35</b>	<b>5,45</b>	<b>6,45</b>	<b>7,30</b>	<b>7,75</b>	<b>8,12</b>	<b>8,95</b>
Run VMG	<b>3,77</b>	<b>4,72</b>	<b>5,59</b>	<b>6,39</b>	<b>7,01</b>	<b>7,55</b>	<b>8,29</b>
Gybe Angles	<b>144,0°</b>	<b>148,0°</b>	<b>149,1°</b>	<b>155,8°</b>	<b>170,7°</b>	<b>180,0°</b>	<b>180,0°</b>

**Class Division Length**  
CDL = **9,977**

**Storm Sails Areas**


Heavy Weather Jib	<b>33,06</b>
Storm Jib (JL=10,17)	<b>12,25</b>
Storm Triesail	<b>14,03</b>

**Owner**

<b>BOAT</b>	
Name <b>ALLEGRA</b> File <b>GBR3116</b>	Sail Nr <b>GBR-3116</b> Data in <b>meters/kilograms</b>

<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>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>14,850</b>	E <b>5,400</b>	MDT1 <b>0,135</b>	MW <b>0,240</b>
IG <b>15,536</b>	J <b>4,405</b>	MDL1 <b>0,240</b>	GO <b>0,272</b>
ISP <b>15,836</b>	SFJ <b>0,000</b>	MDT2 <b>0,130</b>	BD <b>0,190</b>
BAS <b>1,724</b>	SPL <b>4,480</b>	MDL2 <b>0,186</b>	MWT
FSP <b>0,072</b>	TPS <b>5,350</b>	TL <b>1,040</b>	MCG

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>31/07/2012</b>		SG <b>1,0250</b>	
FFM <b>1,323</b>	FF <b>1,318</b>	SFFP <b>0,292</b>	
FAM <b>1,095</b>	FA <b>1,115</b>	SAFP <b>11,313</b>	
W1 <b>100,0</b>	PD1 <b>543,9</b>	WD <b>11,790</b>	
W2 <b>100,0</b>	PD2 <b>537,7</b>	GSA <b>1,0</b>	
W3 <b>100,0</b>	PD3 <b>538,0</b>	RSA <b>1,0</b>	
W4 <b>100,0</b>	PD4 <b>537,8</b>	PLM <b>9000,0</b>	
LCF from stem on CL / on sheer		<b>6,482 / 6,720</b>	
Maximum beam station from stem		<b>7,502</b>	
RM Measured		<b>172,1kg·m</b>	
RM Default		<b>183,9kg·m</b>	
Limit of positive stability / Stab.Index		<b>113,9° / 117,4</b>	
Freeboard at mast at 4,405		<b>1,192</b>	



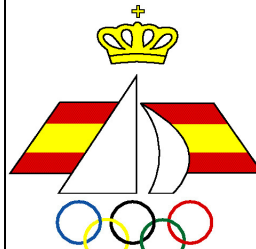
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**2017**

**IMS Measurement Certificate**

**Certificate**

Number **311601**  
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VPP Ver. **2017 1.00**  
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<b>MIZZEN RIG AND SAILS</b>	
N/A	

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0,437</b>		
Type <b>Folding 2 blades</b>	PBW <b>0,112</b>		
Twin Screw <b>No</b>	PIPA <b>0,0035</b>		
ST1 <b>0,042</b>	ST3 <b>0,180</b>	ST5 <b>0,295</b>	
ST2 <b>0,180</b>	ST4 <b>0,112</b>	EDL <b>2,265</b>	

<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0,180	1,16	2,01	3,48	4,50	47,57	48,60	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL			SL · (SFL + 4·SHW) / 6	
	16,03	16,03	16,03	8,47	8,26	112,58			
Asymmetric	SLU	SLE	SL	SHW	SFL			AS · (SFL + 4·SHW) / 6	
	18,37	15,96	17,16	8,43	9,47	123,56			

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0,08	0,74	1,48	2,98	4,52	6,11	15,38	46,42				Kevlar	
0,00	0,00	0,00	0,00	0,00	5,72	15,35	44,70			03/10/2007	Dacron	G-2
0,00	0,00	0,00	0,00	0,00	4,18	15,30	32,56	Y		03/10/2007	Dacron	G-3

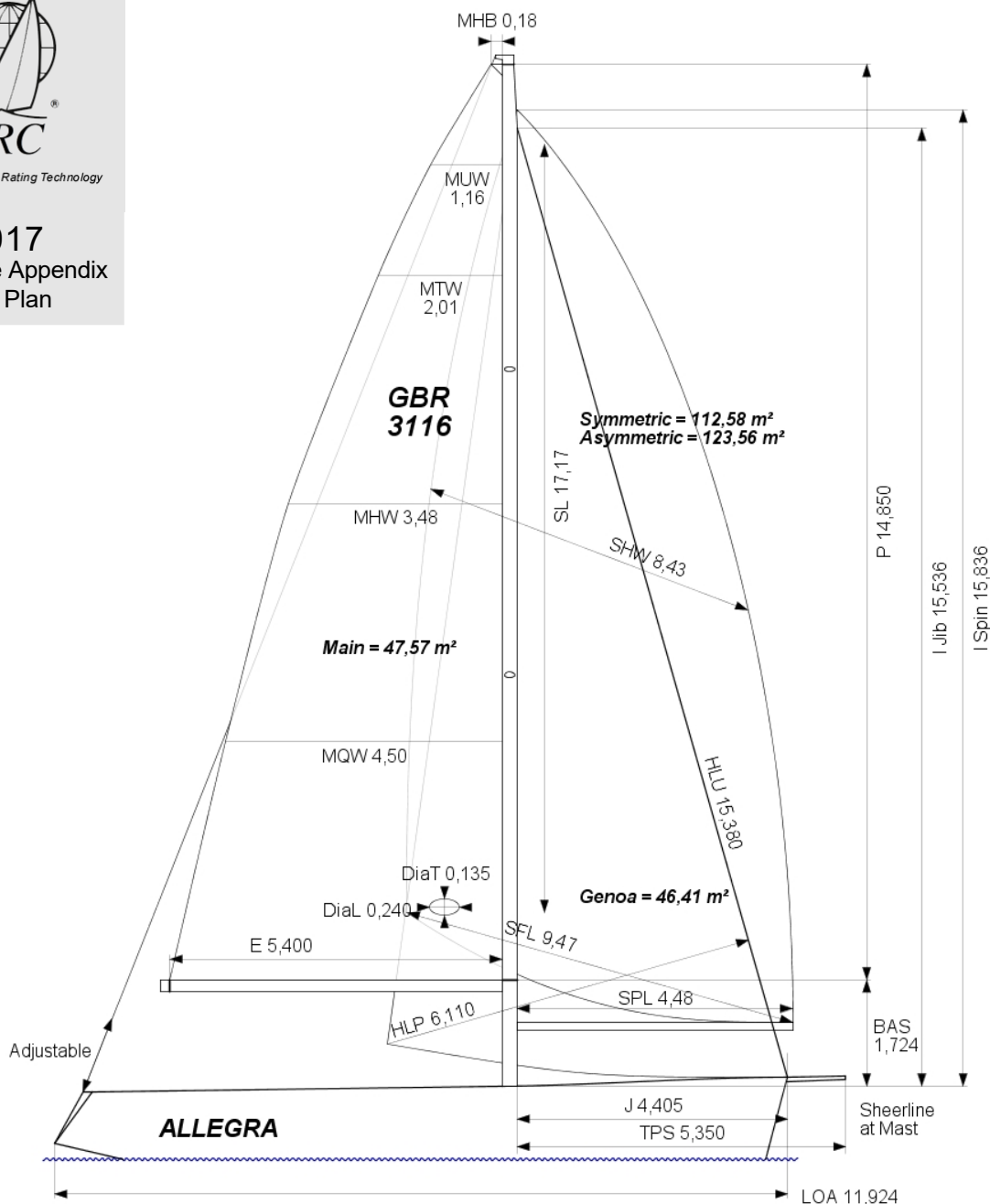
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>Marinov CRO 5</b>				
Date <b>31/07/2012</b>				
Comment				
Id	Item	Weight	Distance	VCG Description
+	Anchor	12,0	4,70	
+	Chain	10,0	4,70	rope 50 m x 10-
+	Tools	20,0	6,10	tool box, spare-
Id	Item	Maker	Model	
1	Engine	YANMAR	3JH4E	
Id	Item	Weight	Description	
+	Deck-Gear	14,0	sheets, blocks	
+	Fwd-Items	5,0	life-jacket, harness	

<b>MEASUREMENT INVENTORY</b>									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
4	Tank	Boiler		INOX - FIX	25,0	8,90		25,0	starboard side
4	Tank	Holding		PVC - FIX	80,0	2,80		0,0	center line
3	Tank	Disel		PVC - FIX	138,0	9,30		130,0	centar
2	Tank	Water		PVC - FIX	140,0	5,70		0,0	starbord side
1	Tank	Water		PVC - FIX	140,0	5,70		0,0	port side
Id	Item	Weight	Distance	VCG	Description				
1	Battery		7,40		2x 108 Ah, 1 x 75 Ah				
1	Misc	4,0	11,00		gas bottle				



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	0,180	1,16	2,01	3,48	4,50	47,57	Marinov	09/06/2009	North sails	Kevlar	

**HEADSAILS (3)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0,08	0,74	1,48	2,98	4,52	6,11	15,38	139%	46,42			North		North	Kevlar	
1	0,00	0,00	0,00	0,00	0,00	5,72	15,35	130%	44,70			Grubisa	03/10/2007	Grego	Dacron	G-2
2	0,00	0,00	0,00	0,00	0,00	4,18	15,30	95%	32,56	Y		Grubisa	03/10/2007	Grego	Dacron	G-3

**SYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
2	16,03	16,03	16,03	8,47	8,26	112,58	D - 206	30/10/2003	North sails	Nylon	S 1,5

**ASYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
A1	18,37	15,96	17,16	8,43	9,47	123,56	asym	G. Zammit			Nylon	