

<b>BOAT</b>
Name <b>SIBILLA</b> Sail Nr <b>ITA-16960</b>

<b>GPH</b>
<b>608.5</b>

<b>HULL</b>
Length Overall <b>11.245m</b>
Maximum Beam <b>3.468m</b>
Displacement <b>5,198kg</b>
Draft <b>2.265m</b>
IMS Reg. Division <b>Cruiser/Racer</b>
Dynamic Allowance <b>0.127%</b>
Fwd Accommodation <b>Yes</b>
Hull Construction <b>Solid</b>
Carbon Rudder <b>No</b>
Crew Arm Extension
IMSL <b>10.041m</b> VCGD <b>-0.246m</b> Sink <b>19.20kg/mm</b>
RL <b>9.026m</b> VCGM <b>-0.063m</b> WS <b>25.10m<sup>2</sup></b>
LSM0 <b>9.782m</b> Displacement/Length ratio <b>5.5533</b>



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**2017**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>PALVIT 37</b>
Designer <b>PALMIERI</b>
Builder <b>PROTO</b>
Series <b>12/2011</b>
Age <b>12/2011</b>
Age Allowance <b>0.195%</b>
Offset File <b>PALVIT37.OFF - 25/06/2014 09:04:08</b>
Measurement by <b>PATACCA - 22/08/2015</b>

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Offshore  
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<b>SCORING OPTIONS</b>	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time On Distance	<b>590.9</b>			<b>661.9</b>		
Time On Time	<b>1.0153</b>			<b>1.0198</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>705.0</b>	<b>537.0</b>	<b>474.3</b>	<b>918.1</b>	<b>665.4</b>	<b>571.3</b>
Time on Time	<b>0.9575</b>	<b>1.2570</b>	<b>1.4232</b>	<b>0.7352</b>	<b>1.0145</b>	<b>1.1815</b>

<b>TIME ALLOWANCES</b>	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>1048.4</b>	<b>863.3</b>	<b>754.6</b>	<b>702.9</b>	<b>682.3</b>	<b>672.6</b>	<b>657.6</b>
52°	<b>681.4</b>	<b>567.2</b>	<b>508.7</b>	<b>487.2</b>	<b>479.5</b>	<b>475.4</b>	<b>468.5</b>
60°	<b>638.9</b>	<b>536.3</b>	<b>492.3</b>	<b>473.4</b>	<b>464.6</b>	<b>459.8</b>	<b>453.7</b>
75°	<b>604.6</b>	<b>514.8</b>	<b>480.5</b>	<b>459.8</b>	<b>443.6</b>	<b>433.6</b>	<b>425.8</b>
90°	<b>605.7</b>	<b>513.9</b>	<b>474.6</b>	<b>457.3</b>	<b>437.5</b>	<b>418.9</b>	<b>397.0</b>
110°	<b>621.6</b>	<b>511.7</b>	<b>470.3</b>	<b>442.6</b>	<b>422.7</b>	<b>410.1</b>	<b>388.8</b>
120°	<b>641.5</b>	<b>524.6</b>	<b>477.1</b>	<b>449.2</b>	<b>421.5</b>	<b>396.6</b>	<b>371.0</b>
135°	<b>713.8</b>	<b>575.3</b>	<b>501.7</b>	<b>468.8</b>	<b>443.2</b>	<b>417.2</b>	<b>366.1</b>
150°	<b>852.3</b>	<b>672.5</b>	<b>564.8</b>	<b>500.8</b>	<b>470.0</b>	<b>446.1</b>	<b>398.7</b>
Run VMG	<b>984.2</b>	<b>776.5</b>	<b>652.2</b>	<b>571.7</b>	<b>518.7</b>	<b>481.6</b>	<b>434.5</b>

<b>Certificate</b>
Number <b>169601</b>
ORC Ref <b>ITA00021921</b>
Issued On <b>07/04/2017</b>
VPP Ver. <b>2017 1.00</b>
Valid until <b>31/12/2017</b>

<b>Selected Courses</b>	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	<b>1016.3</b>	<b>819.9</b>	<b>703.4</b>	<b>637.3</b>	<b>600.5</b>	<b>577.1</b>	<b>546.0</b>
Circular Random	<b>844.6</b>	<b>679.1</b>	<b>589.9</b>	<b>537.8</b>	<b>505.5</b>	<b>483.9</b>	<b>455.6</b>
Ocean for PCS	<b>1038.8</b>	<b>798.6</b>	<b>662.9</b>	<b>579.8</b>	<b>525.8</b>	<b>488.0</b>	<b>435.3</b>
Non Spinnaker	<b>899.4</b>	<b>718.0</b>	<b>618.9</b>	<b>560.3</b>	<b>523.7</b>	<b>499.5</b>	<b>468.2</b>

<b>Crew Weight</b>
Declared <b>660kg</b>
Default* <b>667kg</b>
Non Manual Pwr <b>No</b>

<b>Special Scoring</b>
ToD ToT
Double H.GPH <b>612.7 0.9792</b>
Double H.OSN <b>596.6 1.0057</b>
Non Spin GPH <b>639.1 0.9388</b>
Non Spin OSN <b>620.3 0.9673</b>

<b>Velocity Prediction in Knots for True Wind Speeds</b>	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>43.4°</b>	<b>42.3°</b>	<b>41.9°</b>	<b>40.0°</b>	<b>39.4°</b>	<b>39.0°</b>	<b>38.6°</b>
Beat VMG	<b>3.43</b>	<b>4.17</b>	<b>4.77</b>	<b>5.12</b>	<b>5.28</b>	<b>5.35</b>	<b>5.47</b>
52°	<b>5.28</b>	<b>6.35</b>	<b>7.08</b>	<b>7.39</b>	<b>7.51</b>	<b>7.57</b>	<b>7.68</b>
60°	<b>5.63</b>	<b>6.71</b>	<b>7.31</b>	<b>7.60</b>	<b>7.75</b>	<b>7.83</b>	<b>7.94</b>
75°	<b>5.95</b>	<b>6.99</b>	<b>7.49</b>	<b>7.83</b>	<b>8.12</b>	<b>8.30</b>	<b>8.45</b>
90°	<b>5.94</b>	<b>7.01</b>	<b>7.59</b>	<b>7.87</b>	<b>8.23</b>	<b>8.59</b>	<b>9.07</b>
110°	<b>5.79</b>	<b>7.04</b>	<b>7.65</b>	<b>8.13</b>	<b>8.52</b>	<b>8.78</b>	<b>9.26</b>
120°	<b>5.61</b>	<b>6.86</b>	<b>7.55</b>	<b>8.01</b>	<b>8.54</b>	<b>9.08</b>	<b>9.70</b>
135°	<b>5.04</b>	<b>6.26</b>	<b>7.18</b>	<b>7.68</b>	<b>8.12</b>	<b>8.63</b>	<b>9.83</b>
150°	<b>4.22</b>	<b>5.35</b>	<b>6.37</b>	<b>7.19</b>	<b>7.66</b>	<b>8.07</b>	<b>9.03</b>
Run VMG	<b>3.66</b>	<b>4.64</b>	<b>5.52</b>	<b>6.30</b>	<b>6.94</b>	<b>7.47</b>	<b>8.29</b>
Gybe Angles	<b>144.4°</b>	<b>148.4°</b>	<b>150.1°</b>	<b>156.1°</b>	<b>171.9°</b>	<b>180.0°</b>	<b>180.0°</b>

<b>Sails Limitations</b>	
Headsails <b>5</b>	Spinnakers <b>3</b>

<b>Class Division Length</b>
<b>CDL = 9.534</b>

<b>Storm Sails Areas</b>
Heavy Weather Jib <b>28.12</b>
Storm Jib (JL=9.38) <b>10.41</b>
Storm Trysail <b>11.74</b>

<b>Owner</b>

<b>BOAT</b>	
Name <b>SIBILLA</b>	Sail Nr <b>ITA-16960</b>
File <b>I16960</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>06/04/2017</b>		SG <b>1.0240</b>	
FFM <b>1.390</b>	FF <b>1.390</b>	SFFP <b>0.545</b>	
FAM <b>1.112</b>	FA <b>1.116</b>	SAFP <b>10.950</b>	
W1 <b>84.5</b>	PD1 <b>594.6</b>	WD <b>11.500</b>	
W2 <b>84.5</b>	PD2 <b>600.2</b>	GSA <b>1.0</b>	
W3 <b>84.5</b>	PD3 <b>590.1</b>	RSA <b>1.0</b>	
W4 <b>84.5</b>	PD4 <b>594.7</b>	PLM <b>9000.0</b>	
LCF from stem on CL / on sheer		<b>5.872 / 6.108</b>	
Maximum beam station from stem		<b>6.760</b>	
RM Measured		<b>128.6kg·m</b>	
RM Default		<b>132.0kg·m</b>	
Limit of positive stability / Stab.Index		<b>125.7° / 126.6</b>	
Freeboard at mast at 4.300		<b>1.224</b>	

<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>3</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>13.950</b>	E <b>4.810</b>	MDT1 <b>0.110</b>	MW <b>0.135</b>
IG <b>14.200</b>	J <b>4.300</b>	MDL1 <b>0.180</b>	GO <b>0.204</b>
ISP <b>14.350</b>	SFJ	MDT2 <b>0.110</b>	BD <b>0.220</b>
BAS <b>1.600</b>	SPL <b>4.300</b>	MDL2 <b>0.120</b>	MWT <b>175.30</b>
FSP <b>0.070</b>	TPS	TL <b>1.250</b>	MCG <b>5.060</b>



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IMS Measurement Certificate

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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.415</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.128</b>		
Twin Screw <b>No</b>	PIPA <b>0.0035</b>		
ST1 <b>0.051</b>	ST3 <b>0.200</b>	ST5 <b>0.275</b>	
ST2 <b>0.170</b>	ST4 <b>0.115</b>	EDL <b>1.850</b>	

<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	



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<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.150	1.04	1.85	3.12	4.04	40.14	40.96	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	92.72		SL · (SFL + 4·SHW) / 6	
	15.20	15.20	15.20	7.36	7.16				
Asymmetric Not Available									

<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	0.69	1.31	2.40	3.41	4.38	14.14	32.84	N	N	20/08/2015	Unknow	
0.08	0.67	1.25	2.33	3.37	4.38	14.14	32.31	N	N	22/08/2015	Unknow	
0.07	0.62	1.19	2.25	3.30	4.29	14.55	32.31	N	N	25/06/2014	Unknow	
0.10	0.59	1.10	2.09	3.05	4.00	13.74	28.36	N	N	25/06/2014	Unknow	

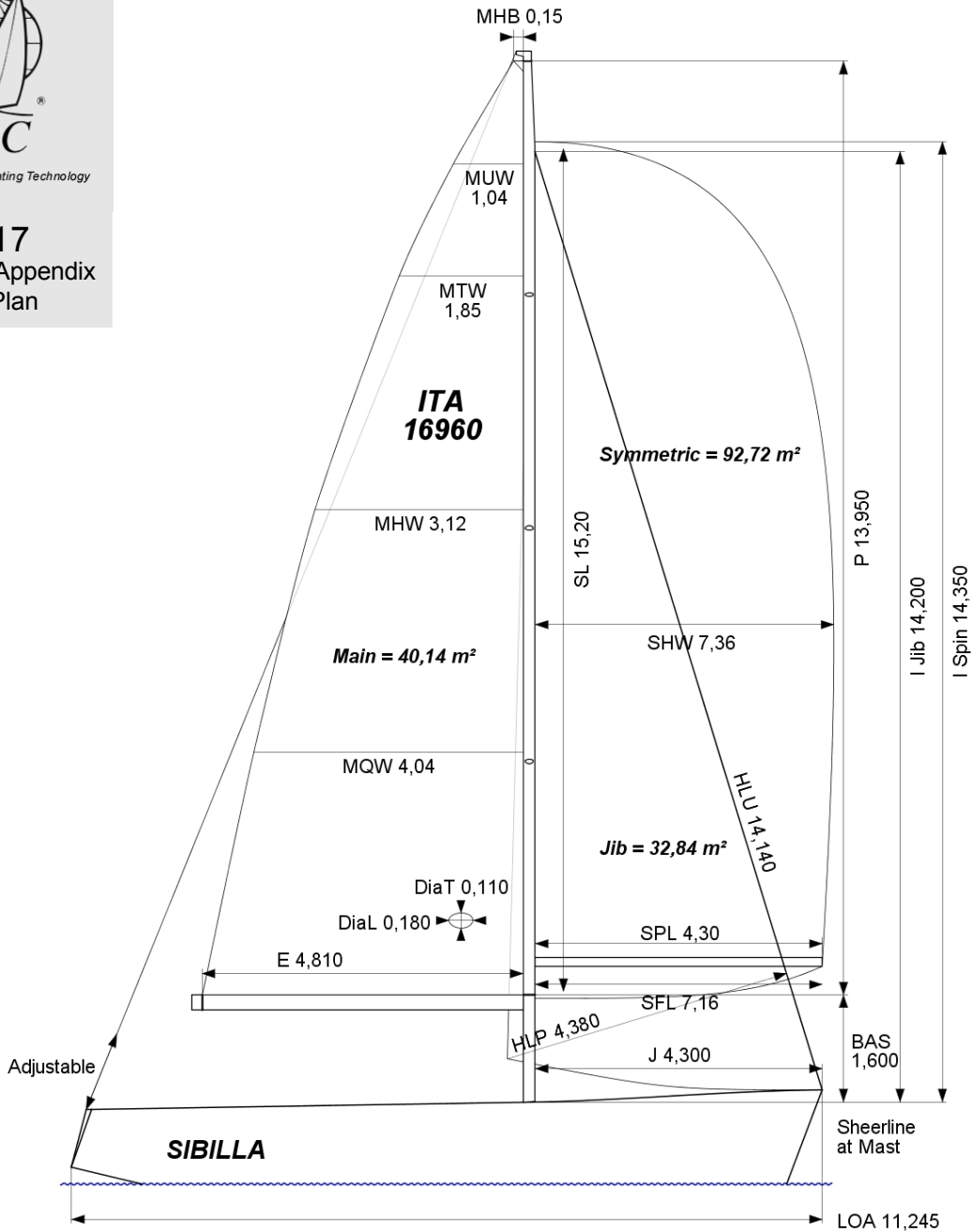
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>PATACCA149</b>				
Date <b>06/04/2017</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
A	Engine	LOMBARDINI	30HP	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

<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 Description</i>
C	Tank	GASOLIO	INOX	90.0	7.30	0.00	30-0 LT
B	Tank	ACQUA	PVC	50.0	4.80	0.00	0-0 VUOTO
A	Tank	ACQUA	PVC	50.0	4.80	0.00	0-0 VUOTO
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>			
E	Ballast	35.0	5.40	0.00 1 PANE DI PB A DX			
D	Ballast	45.3	4.62	0.00 3 PANI DI PB DXE SX			
C	Ballast	27.0	2.55	0.00 2 PANI DI PB CENTRO CARENA			
B	Ballast	100.0	3.40	0.00 8 PANI DI PB DXE SX			
A	Ballast	87.2	3.90	0.00 8 PANI DI PIOMBO DXE SX			
B	Battery	30.0	5.30	0.00 1X100 AH			
A	Battery	30.0	6.90	0.00 1X100 AH			



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Certificate Appendix  
Sail Plan



**SAILS INVENTORY**

**MAINSAIL (1)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
B	0.150	1.04	1.85	3.12	4.04	40.14	PATACCA	22/08/2015		Unknown	

**HEADSAILS (4)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
D	0.08	0.69	1.31	2.40	3.41	4.38	14.14	102%	32.84	N	N	PATACCA	20/08/2015		Unknown	
C	0.08	0.67	1.25	2.33	3.37	4.38	14.14	102%	32.31	N	N	PATACCA	22/08/2015		Unknown	
B	0.07	0.62	1.19	2.25	3.30	4.29	14.55	100%	32.31	N	N	PATACCA	25/06/2014		Unknown	
A	0.10	0.59	1.10	2.09	3.05	4.00	13.74	93%	28.36	N	N	PATACCA	25/06/2014		Unknown	

**SYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	15.20	15.20	15.20	7.36	7.16	92.72	PATACCA	25/06/2014		Unknown	

**ASYMMETRIC SPINNAKERS (0)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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