

<b>BOAT</b>
Name <b>FOLGORE</b> Sail Nr <b>ITA-299</b>

<b>GPH</b>
<b>614.1</b>

<b>HULL</b>	
Length Overall	<b>9.950m</b>
Maximum Beam	<b>3.428m</b>
Displacement	<b>3,939kg</b>
Draft	<b>1.985m</b>
IMS Reg. Division	<b>Cruiser/Racer</b>
Dynamic Allowance	<b>0.083%</b>
Fwd Accommodation	<b>Yes</b>
Hull Construction	<b>Solid</b>
Carbon Rudder	<b>No</b>
Crew Arm Extension	
IMSL	<b>9.113m</b> VCGD <b>-0.292m</b> Sink <b>16.34kg/mm</b>
RL	<b>8.793m</b> VCGM <b>-0.167m</b> WS <b>21.35m<sup>2</sup></b>
LSM0	<b>8.802m</b> Displacement/Length ratio <b>5.7762</b>



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**2019**  
ORC International  
Certificate

<b>GENERAL</b>
Class <b>J-99</b>
Designer <b>JOHNSTONE</b>
Builder <b>J-COMPOSITES</b>
Series <b>04/2018</b>
Age <b>04/2019</b>
Age Allowance <b>0.033%</b>
Offset File <b>J99.OFF - 21/05/2019 11:01:14</b>
Measurement by - <b>10/05/2019</b>

<b>Rating Office</b>
Offshore Racing Congress

<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>597.2</b>			<b>666.2</b>		
Time on Time	<b>1.0047</b>			<b>1.0133</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>697.7</b>	<b>545.9</b>	<b>486.7</b>	<b>899.8</b>	<b>667.7</b>	<b>584.6</b>
Time on Time	<b>0.9675</b>	<b>1.2364</b>	<b>1.3870</b>	<b>0.7502</b>	<b>1.0110</b>	<b>1.1546</b>

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**Invalid for**  
**RACING**



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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>1039.7</b>	<b>858.5</b>	<b>755.6</b>	<b>712.1</b>	<b>697.2</b>	<b>691.7</b>	<b>679.6</b>
52°	<b>680.0</b>	<b>574.2</b>	<b>526.3</b>	<b>507.4</b>	<b>500.0</b>	<b>496.4</b>	<b>490.4</b>
60°	<b>642.5</b>	<b>551.2</b>	<b>513.7</b>	<b>495.7</b>	<b>485.7</b>	<b>480.8</b>	<b>475.9</b>
75°	<b>615.0</b>	<b>535.7</b>	<b>504.2</b>	<b>483.8</b>	<b>467.2</b>	<b>455.0</b>	<b>445.6</b>
90°	<b>611.5</b>	<b>521.9</b>	<b>491.0</b>	<b>478.0</b>	<b>460.0</b>	<b>441.0</b>	<b>415.0</b>
110°	<b>604.5</b>	<b>515.6</b>	<b>480.7</b>	<b>452.2</b>	<b>431.8</b>	<b>419.0</b>	<b>394.3</b>
120°	<b>621.9</b>	<b>524.1</b>	<b>486.2</b>	<b>455.1</b>	<b>425.7</b>	<b>400.4</b>	<b>369.3</b>
135°	<b>692.7</b>	<b>563.7</b>	<b>506.8</b>	<b>476.1</b>	<b>445.9</b>	<b>417.3</b>	<b>355.3</b>
150°	<b>818.9</b>	<b>654.1</b>	<b>558.9</b>	<b>508.5</b>	<b>479.7</b>	<b>452.1</b>	<b>399.0</b>
Run VMG	<b>945.5</b>	<b>755.3</b>	<b>644.2</b>	<b>574.4</b>	<b>524.1</b>	<b>492.0</b>	<b>440.3</b>

<b>Certificate</b>
Number <b>I2991</b>
ORC Ref <b>ITA00052724</b>
Issued On <b>23/05/2019</b>
VPP Ver. <b>2019 1.01</b>
Valid until <b>31/12/2019</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>992.6</b>	<b>806.9</b>	<b>699.9</b>	<b>643.2</b>	<b>610.7</b>	<b>591.9</b>	<b>559.9</b>
Circular Random	<b>840.0</b>	<b>680.9</b>	<b>596.2</b>	<b>547.3</b>	<b>516.8</b>	<b>495.9</b>	<b>466.1</b>
Coastal / Long Distance	<b>987.9</b>	<b>758.1</b>	<b>634.3</b>	<b>566.5</b>	<b>528.8</b>	<b>497.7</b>	<b>446.2</b>
Non Spinnaker	<b>910.7</b>	<b>730.4</b>	<b>632.8</b>	<b>575.7</b>	<b>540.3</b>	<b>516.8</b>	<b>485.5</b>

<b>Crew Weight</b>	
Default	<b>574kg</b>
Maximum	<b>572kg</b>
Minimum*	<b>429kg</b>
*when applied by the NoR and SI	
Non Manual Pwr	<b>No</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>42.7°</b>	<b>41.3°</b>	<b>39.9°</b>	<b>38.3°</b>	<b>37.9°</b>	<b>37.7°</b>	<b>37.6°</b>
Beat VMG	<b>3.46</b>	<b>4.19</b>	<b>4.76</b>	<b>5.06</b>	<b>5.16</b>	<b>5.20</b>	<b>5.30</b>
52°	<b>5.29</b>	<b>6.27</b>	<b>6.84</b>	<b>7.09</b>	<b>7.20</b>	<b>7.25</b>	<b>7.34</b>
60°	<b>5.60</b>	<b>6.53</b>	<b>7.01</b>	<b>7.26</b>	<b>7.41</b>	<b>7.49</b>	<b>7.57</b>
75°	<b>5.85</b>	<b>6.72</b>	<b>7.14</b>	<b>7.44</b>	<b>7.71</b>	<b>7.91</b>	<b>8.08</b>
90°	<b>5.89</b>	<b>6.90</b>	<b>7.33</b>	<b>7.53</b>	<b>7.83</b>	<b>8.16</b>	<b>8.67</b>
110°	<b>5.96</b>	<b>6.98</b>	<b>7.49</b>	<b>7.96</b>	<b>8.34</b>	<b>8.59</b>	<b>9.13</b>
120°	<b>5.79</b>	<b>6.87</b>	<b>7.40</b>	<b>7.91</b>	<b>8.46</b>	<b>8.99</b>	<b>9.75</b>
135°	<b>5.20</b>	<b>6.39</b>	<b>7.10</b>	<b>7.56</b>	<b>8.07</b>	<b>8.63</b>	<b>10.13</b>
150°	<b>4.40</b>	<b>5.50</b>	<b>6.44</b>	<b>7.08</b>	<b>7.50</b>	<b>7.96</b>	<b>9.02</b>
Run VMG	<b>3.81</b>	<b>4.77</b>	<b>5.59</b>	<b>6.27</b>	<b>6.87</b>	<b>7.32</b>	<b>8.18</b>
Gybe Angles	<b>144.4°</b>	<b>147.8°</b>	<b>151.8°</b>	<b>159.1°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>

<b>Special Scoring</b>	
ToD	ToT
Double H.GPH	<b>623.3 0.9627</b>
Double H.OSN	<b>607.7 0.9874</b>
Non Spin GPH	<b>653.0 0.9188</b>
Non Spin OSN	<b>633.2 0.9476</b>

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

<b>Class Division Length</b>
<b>CDL = 8.954</b>

<b>Storm Sails Areas</b>	
Heavy Weather Jib	<b>23.41</b>
Storm Jib (JL=8.56)	<b>8.67</b>
Storm Trysail	<b>10.18</b>

<b>Owner</b>

<b>BOAT</b>		
Name <b>FOLGORE</b>	Sail Nr <b>ITA-299</b>	
File <b>I299</b>	Data in <b>meters/kilograms</b>	

<b>INCLINING TEST AND FREEBOARDS</b>					
Inclining Test <b>Current Inclining</b>					
Flotation date <b>10/05/2019</b>				SG <b>1.0220</b>	
FFM <b>1.200</b>	FF <b>1.201</b>	SFFP <b>0.590</b>			
FAM <b>0.843</b>	FA <b>0.845</b>	SAFP <b>9.870</b>			
W1 <b>58.1</b>	PD1 <b>531.6</b>	WD <b>12.250</b>			
W2 <b>58.1</b>	PD2 <b>533.8</b>	GSA <b>1.0</b>			
W3 <b>58.1</b>	PD3 <b>531.9</b>	RSA <b>1.0</b>			
W4 <b>58.1</b>	PD4 <b>532.4</b>	PLM <b>9000.0</b>			
LCF from stem on CL / on sheer				<b>5.428 / 5.680</b>	
Maximum beam station from stem				<b>6.090</b>	
RM Measured				<b>105.3kg-m</b>	
RM Default				<b>90.9kg-m</b>	
Limit of positive stability / Stab.Index				<b>122.2° / 118.9</b>	
Freeboard at mast at 3.900				<b>1.021</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>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>12.760</b>	E <b>4.555</b>	MDT1 <b>0.110</b>	MW <b>0.195</b>		
IG <b>13.150</b>	J <b>3.860</b>	MDL1 <b>0.195</b>	GO <b>0.200</b>		
ISP <b>14.475</b>	SFJ <b>0.040</b>	MDT2 <b>0.105</b>	BD <b>0.160</b>		
BAS <b>1.515</b>	SPL <b>4.140</b>	MDL2 <b>0.180</b>	MWT <b>108.60</b>		
FSP	TPS <b>5.120</b>	TL <b>1.200</b>	MCG <b>5.000</b>		

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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0.380</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.100</b>		
Twin Screw <b>No</b>	PIPA <b>0.0034</b>		
ST1 <b>0.042</b>	ST3 <b>0.180</b>	ST5 <b>0.323</b>	
ST2 <b>0.180</b>	ST4 <b>0.112</b>	EDL <b>1.720</b>	

<b>COMMENTS</b>

<b>MOVABLE BALLAST</b>	
<b>N/A</b>	

<b>CENTERBOARD</b>	
<b>N/A</b>	



<b>SAILS (Maximum Areas)</b>									
<b>Mainsail</b>	<b>MHB</b>	<b>MUW</b>	<b>MTW</b>	<b>MHW</b>	<b>MQW</b>	<b>Area</b>	<b>Area (r)</b>	<b>Formula</b>	
	0.420	1.15	1.91	3.03	3.88	36.05	36.96	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
<b>Symmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>				
	14.23	14.23	14.23	7.44	7.50	88.37		SL · (SFL + 4·SHW) / 6	
<b>Asymmetric on centerline</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>				
	15.70	14.01	14.86	7.38	8.55	94.25		AS · (SFL + 4·SHW) / 6	

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
<b>HHB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Fly</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.09	0.69	1.25	2.20	3.04	3.89	13.10	27.58	N	N	13/05/2019	Carbon	LIGHT
0.11	0.67	1.22	2.16	3.00	3.87	13.09	27.20	N	N	13/05/2019	Carbon	MEDIUM
0.08	0.60	1.13	2.12	3.04	3.94	13.13	27.10	N	N	10/05/2019	Carbon	JIB 2
0.09	0.48	0.90	1.78	2.72	3.64	12.94	23.49	N	N	10/05/2019	Carbon	JIB 3
0.06	0.00	0.00	0.00	0.00	4.10	10.97	22.79	N	N	13/05/2019	Dacron	STAYSAIL

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>FIV 85</b>				
Date <b>10/05/2019</b>				
Comment <b>GOOD CONDITIONS TS</b>				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
<b>Id</b>	<b>Item</b>	<b>Maker</b>	<b>Model</b>	
A	Engine	VOLVO	D1-20	
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		

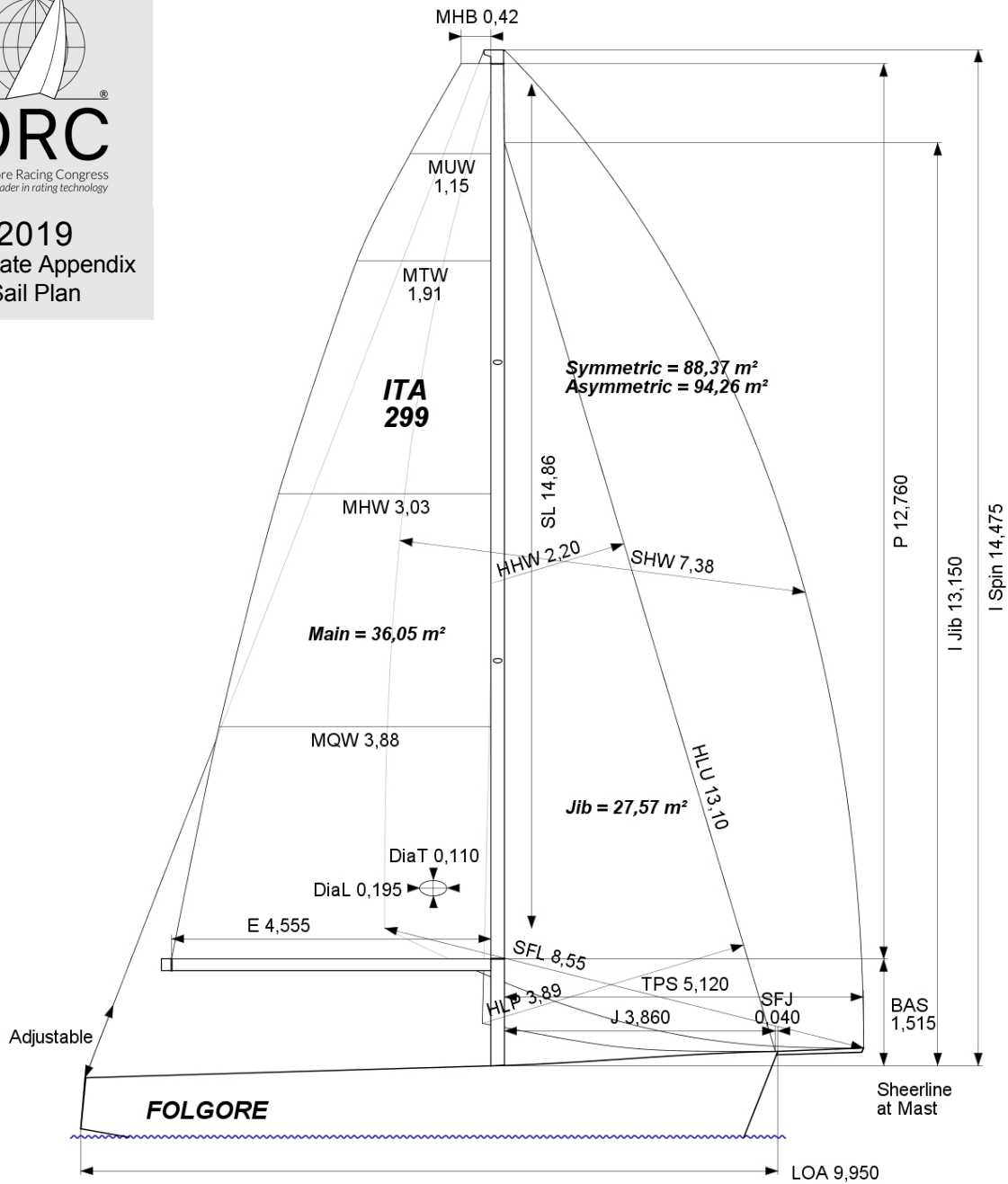
<b>MEASUREMENT INVENTORY</b>							
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG</b>	<b>Condtn Description</b>
A	Tank FUEL		PLASTIC	60.0	5.80	0.00	15.0 L
B	Tank H2O		PLASTIC	60.0	4.70	0.00	0.0
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>			
A	Battery	20.0	5.30	0.00 2 BATTERIES			



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (2)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	0.42	1.15	1.91	3.03	3.88	36.05		10/05/2019	EUROSAIL	Carbon	
B	0.31	1.03	1.75	2.87	3.77	34.53		10/05/2019	EUROSAIL	Carbon	WITH SLIDES

**HEADSAILS (5)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
C	0.09	0.69	1.25	2.20	3.04	3.89	13.10	101%	27.58	N	N		13/05/2019	EUROSAIL	Carbon	LIGHT
D	0.11	0.67	1.22	2.16	3.00	3.87	13.09	100%	27.20	N	N		13/05/2019	EUROSAIL	Carbon	MEDIUM
A	0.08	0.60	1.13	2.12	3.04	3.94	13.13	102%	27.10	N	N		10/05/2019	EUROSAIL	Carbon	JIB 2
B	0.09	0.48	0.90	1.78	2.72	3.64	12.94	94%	23.49	N	N		10/05/2019	EUROSAIL	Carbon	JIB 3
E	0.06	0.00	0.00	0.00	0.00	4.10	10.97	106%	22.79	N	N		13/05/2019	EUROSAIL	Dacron	STAYSAIL

**SYMMETRIC SPINNAKERS (1)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
A	14.23	14.23	14.23	7.44	7.50	88.37		10/05/2019	EUROSAIL	Nylon	

**ASYMMETRIC SPINNAKERS (2)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
B	15.70	14.01	14.86	7.38	8.55	94.26	asym		10/05/2019	EUROSAIL	Nylon	A1
C	14.67	13.04	13.86	6.68	8.00	80.18	asym		10/05/2019	EUROSAIL	Dacron	A0