



**2020**  
**ORC Club**  
**Certificate**

**Rating Office**  
Hellenic Sailing Federation  
Offshore Committee  
Επιτροπή  
Ανοικτής Θαλάσσης  
Ελληνικής  
Ιστιοπλοϊκής Ομοσπονδίας



**Certificate**  
Number **00462**  
Issued On **14/07/2020**  
ORC Ref **03420000MHN**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**

Default	715kg
Maximum	550kg
Minimum*	413kg

*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

ToD	ToT
Non Spin GPH <b>694.1</b>	<b>0.8644</b>
Non Spin OSN <b>670.5</b>	<b>0.8948</b>

**Sails Limitations**

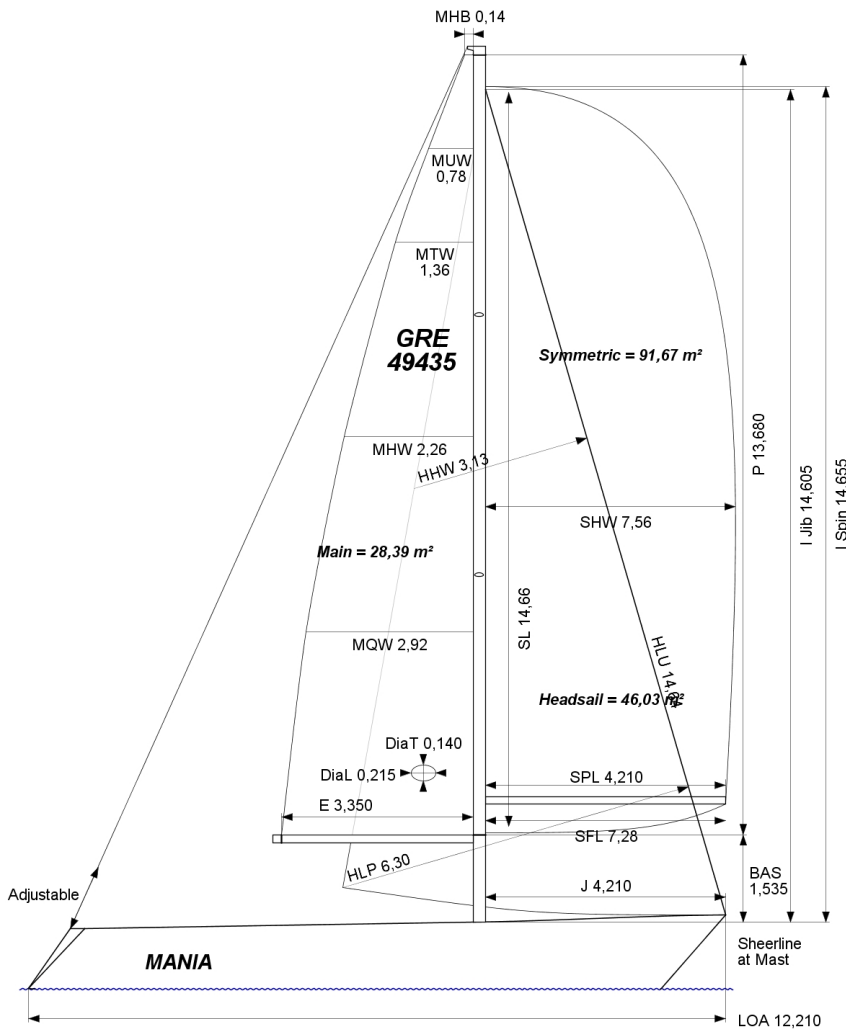
Headsails **5** Spinnakers **4**

**Spinnaker configuration**  
Symmetric: **Yes** **91.67**  
Asymmetric: **No**  
Flying H/S: **No**  
Spin. Pole: **Yes**

**Class Division Length**  
**CDL = 8.973**

**Stability (Measured)**  
Limit Positive Stab.: **119.9°**  
Stability Index: **125.2**

**Owner**



<b>BOAT</b>
Name <b>MANIA</b>
Sail Nr <b>GRE-49435</b>

<b>GPH</b>
<b>663.3</b>

<b>HULL</b>
Data File <b>GR49435</b> LOA <b>12.210m</b>
Offset File <b>MANIA.BOF</b> MB <b>3.770m</b>
Displacement <b>8,652kg</b> Draft <b>1.958m</b>

<b>CLASS</b>
Class <b>SUN FIZZ</b>
Designer <b>PH. BRIAND</b>
Builder <b>JEANNEAU</b>
Series <b>01/1981</b>
Age Date <b>01/1982</b>
Age Allowance <b>0.487%</b>

IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.485%</b>
Plan Review Construction <b>Solid</b>
Fiber Rigging <b>No</b> Aramid Core <b>No</b>
Crew Arm Ex Carbon Rudder <b>No</b>
Light Stanchions <b>No</b>

IMSL <b>10.341m</b> VCGD <b>0.141m</b> Sink <b>22.34kg/mm</b>
RL <b>7.609m</b> VCGM <b>-0.047m</b> WS <b>30.97m²</b>
LSM0 <b>10.272m</b> Displacement/Length ratio <b>7.9827</b>

<b>COMMENTS</b>
STANDARD SUN FIZZ HULL WITH JEANNEAU STERN EXTENSION

Water Ballast <b>0</b> Trim Tab <b>No</b>
BLR Index <b>0.0000</b>

<b>PROPELLER</b>
Installation <b>Shaft exposed</b> PRD <b>0.450</b>
Type <b>Feathering 3 blades</b> PBW <b>0.133</b>
PIPA <b>0.0034</b>

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

<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>642.0</b>			<b>716.4</b>		
Time on Time	<b>0.9346</b>			<b>0.9422</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>779.3</b>	<b>583.3</b>	<b>509.4</b>	<b>1008.1</b>	<b>726.2</b>	<b>607.8</b>
Time on Time	<b>0.8662</b>	<b>1.1573</b>	<b>1.3250</b>	<b>0.6696</b>	<b>0.9295</b>	<b>1.1105</b>

<b>BOAT</b>	
Name <b>MANIA</b>	Sail Nr <b>GRE-49435</b>
File <b>GR49435</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>					
Inclining Test <b>Current Inclining</b>					
Flotation date <b>27/04/2005</b>			SG		
FFM	<b>1.234</b>	FF	<b>1.291</b>	SFFP	<b>0.512</b>
FAM	<b>1.082</b>	FA	<b>1.056</b>	SAFP	<b>11.232</b>
W1	<b>108.0</b>	PD1	<b>233.0</b>	WD	<b>10.880</b>
W2	<b>108.0</b>	PD2	<b>233.0</b>	GSA	<b>28.3</b>
W3	<b>108.0</b>	PD3	<b>233.0</b>	RSA	<b>5674.0</b>
W4	<b>108.0</b>	PD4	<b>233.0</b>	PLM	<b>2060.0</b>
LCF from stem on CL / on sheer					<b>6.607 / 6.852</b>
Maximum beam station from stem					<b>7.070</b>
RM Measured					<b>180.9kg-m</b>
RM Default					<b>161.0kg-m</b>
Limit of positive stability / Stab.Index					<b>119.9° / 125.2</b>
Freeboard at mast at 4.210					<b>1.172</b>



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Offshore Racing Congress  
World leader in rating technology

**2020**  
**Measurements**  
**Datasheet**

<b>RIG</b>					
Forestay Tension	<b>Aft</b>	Spreaders		<b>2</b>	
Inner Stay	<b>None Fitted</b>	Runners/Checkstays		<b>0</b>	
Carbon Mast	<b>No</b>	Jib Furler		<b>No</b>	
Fiber Rigging	<b>No</b>	Main Furler		<b>No</b>	
Non-Circular Rigging	<b>No</b>				
Articulated Bowsprit	<b>No</b>				
P	<b>13.680</b>	E	<b>3.350</b>	MDT1	<b>0.140</b>
IG	<b>14.605</b>	J	<b>4.210</b>	MDL1	<b>0.215</b>
ISP	<b>14.655</b>	SFJ	<b>0.000</b>	MDT2	<b>0.140</b>
BAS	<b>1.535</b>	SPL	<b>4.210</b>	MDL2	<b>0.215</b>
FSD	<b>0.025</b>	TPS		TL	<b>0.000</b>
				MW	<b>0.215</b>
				GO	<b>0.215</b>
				BD	<b>0.145</b>
				MWT	
				MCG	

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

<b>PROPELLER</b>			
Installation	<b>Shaft exposed</b>	PRD	<b>0.450</b>
Type	<b>Feathering 3 blades</b>	PBW	<b>0.133</b>
Twin Screw	<b>No</b>	PIPA	<b>0.0034</b>
PSA	<b>17.533</b>	PHL	<b>0.070</b>
PSD	<b>0.030</b>	ST1	<b>0.023</b>
PHD	<b>0.045</b>	ST2	<b>0.099</b>
		ST3	<b>0.100</b>
		ST4	<b>0.057</b>
		ST5	<b>0.280</b>
		ESL	<b>0.870</b>

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<b>COMMENTS</b>	
STANDARD SUN FIZZ HULL WITH JEANNEAU STERN EXTENSION	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS INVENTORY</b>																
<b>MAINSAIL (1)</b>																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ORC	0.14	0.78	1.36	2.26	2.92	28.39					* Copied from legacy					
<b>HEADSAILS (1)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.07	0.78	1.54	3.13	4.73	6.30	14.64	150%	46.03		No		23/10/2010	KAKITSIS	Pentex	
<b>SYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
S1	14.66	14.66	14.66	7.56	7.28	91.68		25/05/2009	KALITSIS	Polyester						
<b>ASYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date <b>16/04/2005</b>				
Comment				
<b>Internal Ballast total = 0.0</b>				
Id	Item	Weight	Distance	VCG Description
4	Anchor	16.0	1.10	DELTA
4	Chain	150.0	1.10	50m x 10mm
4	Feels	40.0	7.00	
Id	Item	Maker	Model	
1	Engine	YANMAR	50 HP	
Id	Item	Weight	Description	
4	Deck-Gear	10.0	Ropes, Handles	

<b>MEASUREMENT INVENTORY</b>									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	Fuel		Inox	200.0	9.70		0-0	
2	Tank	Water			150.0	9.10		0-0	
3	Tank	Water			100.0	9.10		0-0	
Id	Item	Weight	Distance	VCG Description					
1	Battery	35.0	7.80	140Ah					
2	Battery	30.0	7.80	120Ah					
1	Misc	18.0	1.25	Windlass LOFRANS COBRA					

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>MANIA</b>	Certificate Number <b>00462</b>
Sail Nr <b>GRE-49435</b>	Issued On <b>14/07/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1155.2</b>	<b>950.8</b>	<b>838.4</b>	<b>765.5</b>	<b>722.6</b>	<b>705.0</b>	<b>696.8</b>
52°	<b>745.6</b>	<b>629.2</b>	<b>557.2</b>	<b>519.6</b>	<b>503.3</b>	<b>495.0</b>	<b>490.1</b>
60°	<b>701.9</b>	<b>597.9</b>	<b>532.3</b>	<b>505.6</b>	<b>491.0</b>	<b>482.0</b>	<b>475.3</b>
75°	<b>672.0</b>	<b>573.5</b>	<b>517.2</b>	<b>494.5</b>	<b>479.8</b>	<b>468.9</b>	<b>454.3</b>
90°	<b>681.6</b>	<b>578.3</b>	<b>515.8</b>	<b>487.7</b>	<b>473.5</b>	<b>464.6</b>	<b>443.6</b>
110°	<b>695.4</b>	<b>572.1</b>	<b>506.2</b>	<b>479.2</b>	<b>460.4</b>	<b>443.9</b>	<b>422.4</b>
120°	<b>715.9</b>	<b>587.2</b>	<b>512.9</b>	<b>483.0</b>	<b>463.3</b>	<b>445.5</b>	<b>412.4</b>
135°	<b>791.3</b>	<b>641.1</b>	<b>548.1</b>	<b>500.8</b>	<b>476.9</b>	<b>458.2</b>	<b>422.4</b>
150°	<b>934.6</b>	<b>733.6</b>	<b>620.5</b>	<b>544.3</b>	<b>501.6</b>	<b>478.9</b>	<b>444.4</b>
Run VMG	<b>1079.2</b>	<b>847.1</b>	<b>715.8</b>	<b>625.5</b>	<b>560.9</b>	<b>514.5</b>	<b>469.7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1117.2</b>	<b>899.0</b>	<b>777.1</b>	<b>695.5</b>	<b>641.8</b>	<b>609.7</b>	<b>583.3</b>
Circular Random	<b>928.9</b>	<b>744.1</b>	<b>642.8</b>	<b>582.5</b>	<b>545.0</b>	<b>521.0</b>	<b>493.4</b>
Coastal / Long Distance	<b>1113.4</b>	<b>844.1</b>	<b>695.5</b>	<b>602.2</b>	<b>552.2</b>	<b>519.5</b>	<b>471.7</b>
Non Spinnaker	<b>984.7</b>	<b>783.4</b>	<b>671.9</b>	<b>604.8</b>	<b>562.6</b>	<b>535.2</b>	<b>503.5</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>44.3°</b>	<b>42.0°</b>	<b>41.3°</b>	<b>42.2°</b>	<b>40.9°</b>	<b>40.1°</b>	<b>39.6°</b>
Beat VMG	<b>3.12</b>	<b>3.79</b>	<b>4.29</b>	<b>4.70</b>	<b>4.98</b>	<b>5.11</b>	<b>5.17</b>
52°	<b>4.83</b>	<b>5.72</b>	<b>6.46</b>	<b>6.93</b>	<b>7.15</b>	<b>7.27</b>	<b>7.35</b>
60°	<b>5.13</b>	<b>6.02</b>	<b>6.76</b>	<b>7.12</b>	<b>7.33</b>	<b>7.47</b>	<b>7.57</b>
75°	<b>5.36</b>	<b>6.28</b>	<b>6.96</b>	<b>7.28</b>	<b>7.50</b>	<b>7.68</b>	<b>7.92</b>
90°	<b>5.28</b>	<b>6.23</b>	<b>6.98</b>	<b>7.38</b>	<b>7.60</b>	<b>7.75</b>	<b>8.12</b>
110°	<b>5.18</b>	<b>6.29</b>	<b>7.11</b>	<b>7.51</b>	<b>7.82</b>	<b>8.11</b>	<b>8.52</b>
120°	<b>5.03</b>	<b>6.13</b>	<b>7.02</b>	<b>7.45</b>	<b>7.77</b>	<b>8.08</b>	<b>8.73</b>
135°	<b>4.55</b>	<b>5.62</b>	<b>6.57</b>	<b>7.19</b>	<b>7.55</b>	<b>7.86</b>	<b>8.52</b>
150°	<b>3.85</b>	<b>4.91</b>	<b>5.80</b>	<b>6.61</b>	<b>7.18</b>	<b>7.52</b>	<b>8.10</b>
Run VMG	<b>3.34</b>	<b>4.25</b>	<b>5.03</b>	<b>5.75</b>	<b>6.42</b>	<b>7.00</b>	<b>7.66</b>
Gybe Angles	<b>146.0°</b>	<b>150.0°</b>	<b>152.0°</b>	<b>152.0°</b>	<b>163.0°</b>	<b>180.0°</b>	<b>180.0°</b>