



**2020**  
ORC Club  
Certificate

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

**Certificate**  
Number **01108**  
Issued On **30/09/2020**  
ORC Ref **03420000R5R**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**

Default	630kg
Maximum	<b>300kg</b>
Minimum*	<b>215kg</b>

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

**Special Scoring**

ToD	ToT
Non Spin GPH <b>707.0</b>	<b>0.8487</b>
Non Spin OSN <b>685.1</b>	<b>0.8758</b>

**Sails Limitations**

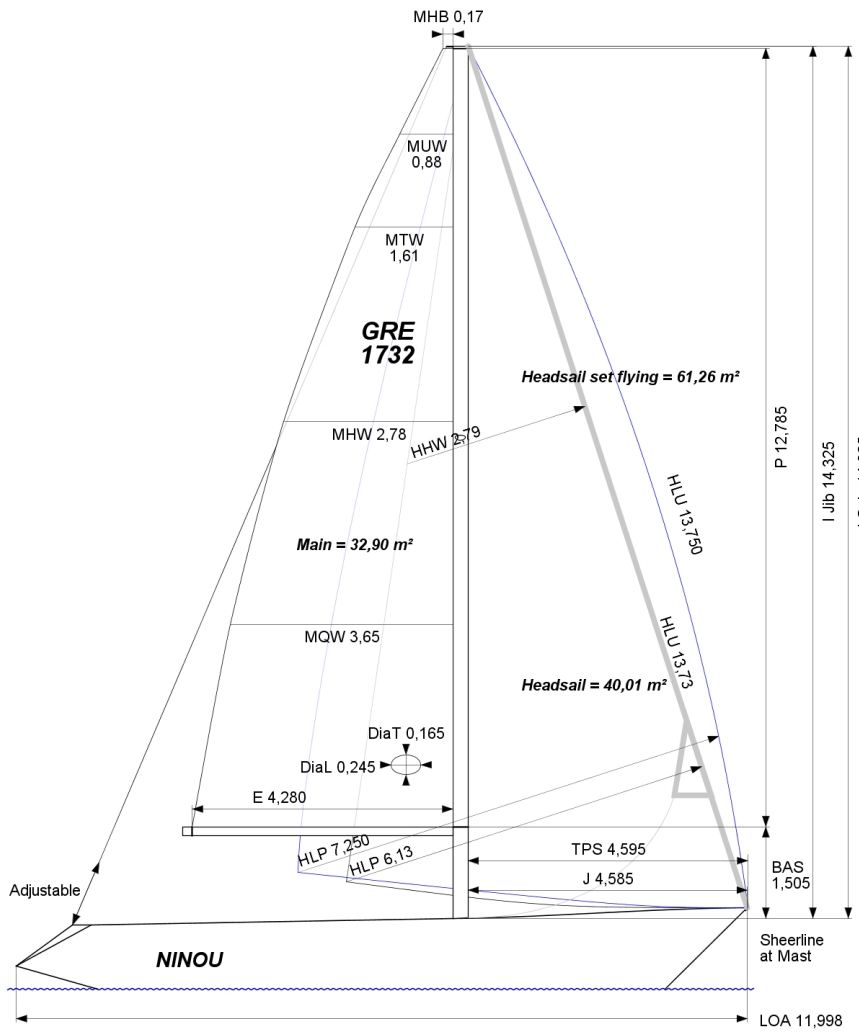
Headsails **1** Spinnakers **0**  
**Woven Polyester**

**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **No**  
Flying H/S: **Yes** **61.26**  
Spin. Pole: **Yes**

**Class Division Length**  
CDL = **8.076**

**Stability (Estimated)**  
Limit Positive Stab.: **110.9°**  
Stability Index: **112.8**

**Owner**



<b>BOAT</b> Name <b>NINOU</b> Sail Nr <b>GRE-1732</b>		<b>GPH</b> <b>685.5</b>	<b>HULL</b> Data File <b>GR1732</b> LOA <b>11.998m</b> Offset File <b>CALYPSO.BOF</b> MB <b>3.756m</b> Displacement <b>6,941kg</b> Draft <b>1.856m</b>			
<b>CLASS</b> Class <b>GIN FIZZ</b> Designer <b>JOUBERT</b> Builder <b>JEANNEAU</b> Series <b>01/1980</b> Age Date <b>06/1980</b> Age Allowance <b>0.487%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.421%</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>				
<b>COMMENTS</b> Builder's displacement. Stern extension.		IMSL <b>9.409m</b> VCGD <b>-0.098m</b> Sink <b>19.83kg/mm</b> RL <b>6.742m</b> VCGM <b>0.129m</b> WS <b>27.60m²</b> LSM0 <b>9.393m</b> Displacement/Length ratio <b>8.3755</b>				
<b>PROPELLER</b> Installation <b>Shaft non exposed</b> PRD <b>0.458</b> Type <b>Solid 3 blades</b> PIPA <b>0.0126</b>		<b>CENTERBOARD</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b> <b>NA</b>				
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>668.7</b>			<b>759.4</b>		
Time on Time	<b>0.8973</b>			<b>0.8889</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>795.1</b>	<b>604.5</b>	<b>536.6</b>	<b>1043.8</b>	<b>768.3</b>	<b>659.3</b>
Time on Time	<b>0.8489</b>	<b>1.1166</b>	<b>1.2579</b>	<b>0.6467</b>	<b>0.8786</b>	<b>1.0238</b>

<b>BOAT</b>	
Name <b>NINO</b>	Sail Nr <b>GRE-1732</b>
File <b>GR1732</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>			
Forestay Tension	<b>Aft</b>	Spreaders	<b>1</b>
Inner Stay	<b>None Fitted</b>	Runners/Checkstays	<b>0</b>
Carbon Mast	<b>No</b>	Jib Furler	<b>Yes</b>
Fiber Rigging	<b>No</b>	Main Furler	<b>No</b>
Non-Circular Rigging	<b>No</b>		
Articulated Bowsprit	<b>No</b>		
P	<b>12.785</b>	E	<b>4.280</b>
IG	<b>14.325</b>	J	<b>4.585</b>
ISP	<b>14.325</b>	SFJ	<b>0.000</b>
BAS	<b>1.505</b>	SPL	<b>4.550</b>
FSD	<b>0.325</b>	TPS	<b>4.595</b>
MDT1	<b>0.165</b>	MW	
MDL1	<b>0.245</b>	GO	
MDT2		BD	
MDL2		MWT	
TL	<b>-3.000</b>	MCG	

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Club Estimated VCG</b>			
Flotation date <b>30/05/2015</b>		SG <b>1.0261</b>	
FFM	<b>1.323</b>	FF	<b>1.323</b>
FAM	<b>1.058</b>	FA	<b>1.058</b>
SFFP	<b>0.507</b>	SAFP	<b>10.763</b>
LCF from stem on CL / on sheer		<b>6.396 / 6.642</b>	
Maximum beam station from stem		<b>7.166</b>	
RM Measured		<b>138.5kg-m</b>	
RM Default		<b>134.5kg-m</b>	
Limit of positive stability / Stab.Index		<b>110.9° / 112.8</b>	
Freeboard at mast at 4.585		<b>1.162</b>	



**ORC**  
Offshore Racing Congress  
World leader in rating technology

**2020**  
Measurements  
Datasheet

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

<b>PROPELLER</b>			
Installation	<b>Shaft non exposed</b>	PRD	<b>0.458</b>
Type	<b>Solid 3 blades</b>	PBW	
Twin Screw	<b>No</b>	PIPA	<b>0.0126</b>
PSA	PHD	ESL	
PSD	PHL		

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<b>COMMENTS</b>	
Builder's displacement. 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					
1	0.17	0.88	1.61	2.78	3.65	32.80		30/05/2015		Dacron						
<b>HEADSAILS (2)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
code0	0.07	1.43	2.75	5.17	6.60	7.25	13.75	158%	61.26		Yes		30/05/2015		Unknow	
1	0.04	0.68	1.35	2.79	4.37	6.13	13.73	134%	40.01		No		30/05/2015		Dacron	
<b>SYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
<b>ASYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>NINOU</b>	Certificate Number <b>01108</b>
Sail Nr <b>GRE-1732</b>	Issued On <b>30/09/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1191.0</b>	<b>985.5</b>	<b>875.9</b>	<b>813.2</b>	<b>785.0</b>	<b>774.5</b>	<b>782.9</b>
52°	<b>767.4</b>	<b>648.0</b>	<b>573.9</b>	<b>537.1</b>	<b>523.1</b>	<b>517.5</b>	<b>516.6</b>
60°	<b>720.9</b>	<b>611.4</b>	<b>545.7</b>	<b>517.0</b>	<b>504.0</b>	<b>498.7</b>	<b>496.4</b>
75°	<b>673.6</b>	<b>565.8</b>	<b>517.0</b>	<b>497.1</b>	<b>487.0</b>	<b>477.7</b>	<b>469.3</b>
90°	<b>652.1</b>	<b>547.5</b>	<b>503.5</b>	<b>481.8</b>	<b>466.5</b>	<b>455.1</b>	<b>443.3</b>
110°	<b>680.1</b>	<b>566.6</b>	<b>512.4</b>	<b>487.0</b>	<b>468.1</b>	<b>450.0</b>	<b>421.8</b>
120°	<b>723.4</b>	<b>602.3</b>	<b>529.3</b>	<b>494.6</b>	<b>472.1</b>	<b>451.9</b>	<b>418.2</b>
135°	<b>821.2</b>	<b>664.2</b>	<b>567.3</b>	<b>514.7</b>	<b>488.0</b>	<b>467.4</b>	<b>430.7</b>
150°	<b>966.8</b>	<b>763.8</b>	<b>651.2</b>	<b>573.2</b>	<b>529.7</b>	<b>503.2</b>	<b>468.2</b>
Run VMG	<b>1116.3</b>	<b>882.0</b>	<b>752.0</b>	<b>661.8</b>	<b>601.4</b>	<b>545.2</b>	<b>489.4</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1153.7</b>	<b>933.7</b>	<b>813.9</b>	<b>737.5</b>	<b>693.2</b>	<b>659.8</b>	<b>636.2</b>
Circular Random	<b>951.8</b>	<b>765.3</b>	<b>664.5</b>	<b>605.7</b>	<b>569.8</b>	<b>547.4</b>	<b>522.5</b>
Coastal / Long Distance	<b>1150.0</b>	<b>873.2</b>	<b>723.7</b>	<b>629.1</b>	<b>580.0</b>	<b>543.3</b>	<b>491.4</b>
Non Spinnaker	<b>994.6</b>	<b>794.3</b>	<b>684.6</b>	<b>619.6</b>	<b>579.8</b>	<b>554.8</b>	<b>527.4</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>44.6°</b>	<b>42.8°</b>	<b>42.8°</b>	<b>43.5°</b>	<b>43.1°</b>	<b>42.8°</b>	<b>43.5°</b>
Beat VMG	<b>3.02</b>	<b>3.65</b>	<b>4.11</b>	<b>4.43</b>	<b>4.59</b>	<b>4.65</b>	<b>4.60</b>
52°	<b>4.69</b>	<b>5.56</b>	<b>6.27</b>	<b>6.70</b>	<b>6.88</b>	<b>6.96</b>	<b>6.97</b>
60°	<b>4.99</b>	<b>5.89</b>	<b>6.60</b>	<b>6.96</b>	<b>7.14</b>	<b>7.22</b>	<b>7.25</b>
75°	<b>5.34</b>	<b>6.36</b>	<b>6.96</b>	<b>7.24</b>	<b>7.39</b>	<b>7.54</b>	<b>7.67</b>
90°	<b>5.52</b>	<b>6.58</b>	<b>7.15</b>	<b>7.47</b>	<b>7.72</b>	<b>7.91</b>	<b>8.12</b>
110°	<b>5.29</b>	<b>6.35</b>	<b>7.03</b>	<b>7.39</b>	<b>7.69</b>	<b>8.00</b>	<b>8.54</b>
120°	<b>4.98</b>	<b>5.98</b>	<b>6.80</b>	<b>7.28</b>	<b>7.63</b>	<b>7.97</b>	<b>8.61</b>
135°	<b>4.38</b>	<b>5.42</b>	<b>6.35</b>	<b>6.99</b>	<b>7.38</b>	<b>7.70</b>	<b>8.36</b>
150°	<b>3.72</b>	<b>4.71</b>	<b>5.53</b>	<b>6.28</b>	<b>6.80</b>	<b>7.15</b>	<b>7.69</b>
Run VMG	<b>3.22</b>	<b>4.08</b>	<b>4.79</b>	<b>5.44</b>	<b>5.99</b>	<b>6.60</b>	<b>7.36</b>
Gybe Angles	<b>145.5°</b>	<b>147.5°</b>	<b>147.0°</b>	<b>147.3°</b>	<b>172.0°</b>	<b>175.0°</b>	<b>179.0°</b>