



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

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

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

**Certificate**  
Number **00271**  
Issued On **10/06/2020**  
ORC Ref **03420000KD8**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**

Default	722kg
Maximum	<b>620kg</b>
Minimum*	<b>465kg</b>

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

**Special Scoring**

ToD	ToT
Non Spin GPH <b>663.4</b>	<b>0.9044</b>
Non Spin OSN <b>642.7</b>	<b>0.9335</b>

**Sails Limitations**

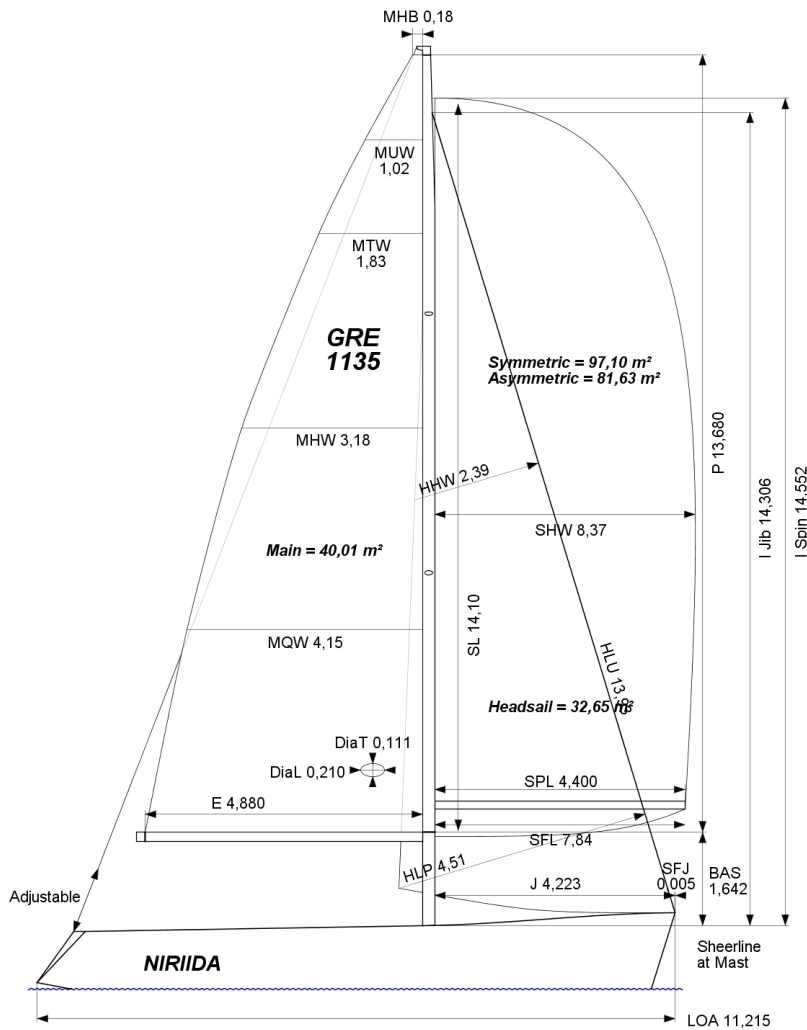
Headsails **5** Spinnakers **4**

**Spinnaker configuration**  
Symmetric: **Yes** **97.10**  
Asymmetric: **Yes** **81.63**  
Flying H/S: **No**  
Spin. Pole: **Yes**

**Class Division Length**  
**CDL = 9.354**

**Stability (Measured)**  
Limit Positive Stab.: **116.6°**  
Stability Index: **120.6**

**Owner**



<b>BOAT</b> Name <b>NIRIIDA</b> Sail Nr <b>GRE-1135</b>		<b>GPH</b> <b>628.8</b>	<b>HULL</b> Data File <b>GR1135</b> LOA <b>11.215m</b> Offset File <b>ELAN37SD.OFF</b> MB <b>3.588m</b> Displacement <b>6,911kg</b> Draft <b>2.099m</b>				
<b>CLASS</b> Class <b>ELAN 37 SD</b> Designer <b>R. HUMPHREYS</b> Builder <b>ELAN YACHTS</b> Series <b>03/2004</b> Age Date <b>07/2004</b> Age Allowance <b>0.487%</b>			IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.250%</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> ex "ALBATROS II"			IMSL <b>10.324m</b> VCGD <b>0.178m</b> Sink <b>20.62kg/mm</b> RL <b>8.391m</b> VCGM <b>0.009m</b> WS <b>27.42m²</b> LSM0 <b>10.338m</b> Displacement/Length ratio <b>6.2551</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>				
<b>PROPELLER</b> Installation <b>Strut</b> PRD <b>0.415</b> Type <b>Folding 2 blades</b> PBW <b>0.120</b> PIPA <b>0.0027</b>			<b>CENTERBOARD</b> <b>NA</b>				
<b>SCORING OPTIONS</b>							
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>			
Time on Distance	<b>610.6</b>			<b>680.3</b>			
Time on Time	<b>0.9827</b>			<b>0.9922</b>			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	<b>722.8</b>	<b>556.3</b>	<b>496.5</b>	<b>933.5</b>	<b>685.5</b>	<b>591.1</b>	
Time on Time	<b>0.9339</b>	<b>1.2133</b>	<b>1.3595</b>	<b>0.7231</b>	<b>0.9847</b>	<b>1.1419</b>	

<b>BOAT</b>	
Name <b>NIRIIDA</b>	Sail Nr <b>GRE-1135</b>
File <b>GR1135</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>					
Inclining Test <b>Current Inclining</b>					
Flotation date <b>03/03/2007</b>			SG <b>1.0270</b>		
FFM <b>1.323</b>	FF <b>1.329</b>	SFFP <b>0.270</b>			
FAM <b>0.950</b>	FA <b>0.947</b>	SAFP <b>10.364</b>			
W1 <b>80.9</b>	PD1 <b>332.0</b>	WD <b>11.720</b>			
W2 <b>80.9</b>	PD2 <b>332.0</b>	GSA <b>38.5</b>			
W3 <b>80.9</b>	PD3 <b>332.0</b>	RSA <b>5674.5</b>			
W4 <b>80.9</b>	PD4 <b>332.0</b>	PLM <b>2800.0</b>			
LCF from stem on CL / on sheer			<b>6.268 / 6.505</b>		
Maximum beam station from stem			<b>7.197</b>		
RM Measured			<b>139.0kg-m</b>		
RM Default			<b>135.5kg-m</b>		
Limit of positive stability / Stab.Index			<b>116.6° / 120.6</b>		
Freeboard at mast at 4.228			<b>1.122</b>		



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**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>4.880</b>	MDT1 <b>0.111</b>	MW <b>0.171</b>		
IG <b>14.306</b>	J <b>4.223</b>	MDL1 <b>0.210</b>	GO <b>0.213</b>		
ISP <b>14.552</b>	SFJ <b>0.005</b>	MDT2 <b>0.111</b>	BD <b>0.171</b>		
BAS <b>1.642</b>	SPL <b>4.400</b>	MDL2 <b>0.145</b>	MWT <b>215.00</b>		
FSD <b>0.034</b>	TPS	TL <b>2.720</b>	MCG <b>4.722</b>		

<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>0.120</b>		
Twin Screw <b>No</b>	PIPA <b>0.0027</b>		
ST1 <b>0.059</b>	ST3 <b>0.174</b>	ST5 <b>0.320</b>	
ST2 <b>0.174</b>	ST4 <b>0.081</b>	EDL <b>2.200</b>	

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<b>COMMENTS</b>	
ex "ALBATROS II"	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS INVENTORY</b>																
<b>MAINSAIL (3)</b>																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.18	1.02	1.83	3.18	4.15	40.01		16/02/2008	QUANTUM	Carbon						
3	0.17	1.02	1.84	3.19	4.13	39.99		26/07/2017	Sailloft	Carbon						
<b>HEADSAILS (5)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1M	0.11	0.68	1.28	2.39	3.44	4.51	13.93	107%	32.65	Y	No		11/04/2019	Quantum	Carbon	
1L	0.09	0.67	1.26	2.38	3.43	4.49	13.85	106%	32.27	Y	No		11/04/2019	Quantum	Kevlar	
2JT	0.07	0.59	1.14	2.27	3.42	4.51	13.96	107%	31.78	Y	No		04/09/2009	QUANTUM	Kevlar	JIB TOP
3						4.26	13.98	101%	30.32	Y	No		15/07/2010	QUANTUM	Kevlar	#3
4						3.53	12.01	84%	21.58	Y	No		04/09/2009	QUANTUM	Dacron	#4
<b>SYMMETRIC SPINNAKERS (2)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	14.10	14.10	14.10	8.37	7.84	97.11		23/02/2008		Nylon	0.5					
2	14.18	14.18	14.18	8.08	7.88	95.01		23/02/2008	QUANTUM	Nylon	1.1					
<b>ASYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
1	14.44	13.58	14.01	6.77	7.88	81.64	asym		23/02/2008		Unknown	A				

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>GRE-11</b>				
Date <b>03/03/2007</b>				
Comment				
<b>Internal Ballast total = 0.0</b>				
Id	Item	Weight	Distance	VCG Description
4	Anchor	16.0	0.80	
Id	Item	Maker	Model	
1	Engine	VOLVO	29HP	
Id	Item	Weight	Description	
4	Deck-Gear	42.0		

<b>MEASUREMENT INVENTORY</b>								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank Fuel		St. Steel	103.0	3.70			0-0
2	Tank Water		PVC	160.0	4.10			0-0
3	Tank Water		St. Steel	50.0	8.20			0-0
4	Tank Wastetank		PVC	50.0	6.40			0-0
Id	Item	Weight	Distance	VCG	Description			
1	Battery	85.0	5.30		2x100Ah + 1x60Ah			
1	Misc	20.0	0.80		Windlass			
2	Misc	35.0	7.80		Boiler 25lt			
3	Misc				Hard heavy ceiling			

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>NIRIIDA</b>	Certificate Number <b>00271</b>
Sail Nr <b>GRE-1135</b>	Issued On <b>10/06/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1071.2</b>	<b>890.1</b>	<b>787.3</b>	<b>729.0</b>	<b>705.6</b>	<b>695.6</b>	<b>686.3</b>
52°	<b>699.9</b>	<b>594.0</b>	<b>532.8</b>	<b>506.7</b>	<b>495.6</b>	<b>491.1</b>	<b>488.6</b>
60°	<b>661.8</b>	<b>564.8</b>	<b>515.4</b>	<b>494.2</b>	<b>483.2</b>	<b>478.0</b>	<b>474.4</b>
75°	<b>633.5</b>	<b>543.1</b>	<b>503.1</b>	<b>483.8</b>	<b>471.0</b>	<b>461.4</b>	<b>451.4</b>
90°	<b>639.3</b>	<b>535.3</b>	<b>491.9</b>	<b>473.6</b>	<b>465.4</b>	<b>452.9</b>	<b>430.7</b>
110°	<b>636.3</b>	<b>528.2</b>	<b>485.7</b>	<b>463.8</b>	<b>445.7</b>	<b>429.3</b>	<b>411.7</b>
120°	<b>653.5</b>	<b>539.2</b>	<b>490.4</b>	<b>466.4</b>	<b>445.7</b>	<b>425.4</b>	<b>396.0</b>
135°	<b>719.1</b>	<b>587.9</b>	<b>513.5</b>	<b>481.3</b>	<b>460.0</b>	<b>438.8</b>	<b>397.1</b>
150°	<b>854.6</b>	<b>680.8</b>	<b>576.5</b>	<b>512.3</b>	<b>482.5</b>	<b>462.4</b>	<b>422.4</b>
Run VMG	<b>986.8</b>	<b>786.1</b>	<b>665.7</b>	<b>584.6</b>	<b>530.7</b>	<b>493.6</b>	<b>452.9</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1029.0</b>	<b>838.1</b>	<b>726.5</b>	<b>656.8</b>	<b>618.2</b>	<b>594.6</b>	<b>569.6</b>
Circular Random	<b>866.8</b>	<b>699.6</b>	<b>610.0</b>	<b>558.0</b>	<b>526.3</b>	<b>505.9</b>	<b>480.8</b>
Coastal / Long Distance	<b>1024.8</b>	<b>786.5</b>	<b>653.7</b>	<b>574.7</b>	<b>535.9</b>	<b>506.5</b>	<b>459.9</b>
Non Spinnaker	<b>929.3</b>	<b>743.8</b>	<b>642.6</b>	<b>583.0</b>	<b>546.1</b>	<b>522.4</b>	<b>493.5</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>42.8°</b>	<b>40.9°</b>	<b>40.5°</b>	<b>40.1°</b>	<b>39.4°</b>	<b>39.0°</b>	<b>38.6°</b>
Beat VMG	<b>3.36</b>	<b>4.04</b>	<b>4.57</b>	<b>4.94</b>	<b>5.10</b>	<b>5.18</b>	<b>5.25</b>
52°	<b>5.14</b>	<b>6.06</b>	<b>6.76</b>	<b>7.11</b>	<b>7.26</b>	<b>7.33</b>	<b>7.37</b>
60°	<b>5.44</b>	<b>6.37</b>	<b>6.99</b>	<b>7.28</b>	<b>7.45</b>	<b>7.53</b>	<b>7.59</b>
75°	<b>5.68</b>	<b>6.63</b>	<b>7.16</b>	<b>7.44</b>	<b>7.64</b>	<b>7.80</b>	<b>7.98</b>
90°	<b>5.63</b>	<b>6.72</b>	<b>7.32</b>	<b>7.60</b>	<b>7.74</b>	<b>7.95</b>	<b>8.36</b>
110°	<b>5.66</b>	<b>6.82</b>	<b>7.41</b>	<b>7.76</b>	<b>8.08</b>	<b>8.38</b>	<b>8.74</b>
120°	<b>5.51</b>	<b>6.68</b>	<b>7.34</b>	<b>7.72</b>	<b>8.08</b>	<b>8.46</b>	<b>9.09</b>
135°	<b>5.01</b>	<b>6.12</b>	<b>7.01</b>	<b>7.48</b>	<b>7.83</b>	<b>8.20</b>	<b>9.06</b>
150°	<b>4.21</b>	<b>5.29</b>	<b>6.24</b>	<b>7.03</b>	<b>7.46</b>	<b>7.79</b>	<b>8.52</b>
Run VMG	<b>3.65</b>	<b>4.58</b>	<b>5.41</b>	<b>6.16</b>	<b>6.78</b>	<b>7.29</b>	<b>7.95</b>
Gybe Angles	<b>145.0°</b>	<b>150.0°</b>	<b>150.0°</b>	<b>156.0°</b>	<b>174.0°</b>	<b>180.0°</b>	<b>180.0°</b>