



World Leader in Rating Technology

## 2018 ORC Club Certificate

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



### Certificate

Number **F00954**  
Issued On **31/3/2018**  
ORC Ref **GRE01009348**  
VPP Ver. **2018 1.00**  
Valid until **28/2/2019**

### Crew Weight

Default 646kg  
Maximum **640kg**  
Minimum\* **480kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

### Special Scoring

ToD ToT  
Non Spin GPH **681,2 0,8808**  
Non Spin OSN **657,7 0,9123**

### Sails Limitations

Headsails **5** Spinnakers **3**  
  
**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 90,21**  
Flying H/S: **No**  
Spin. Pole: **No**

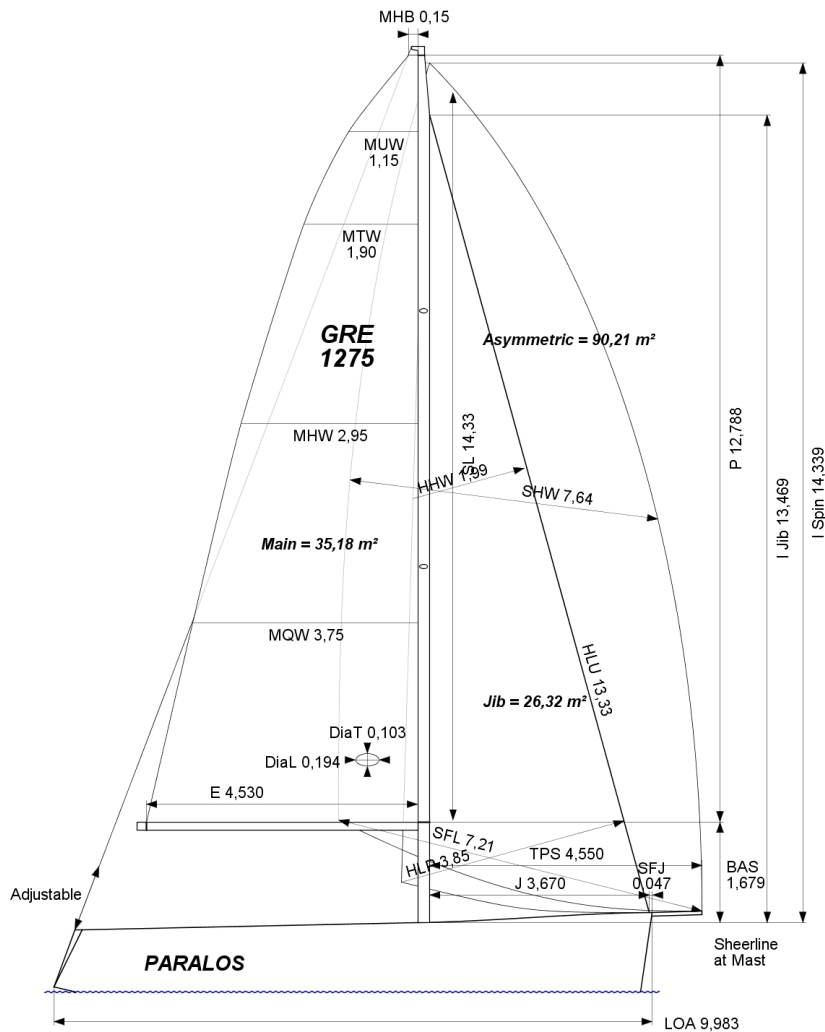
### Class Division Length

**CDL = 8,855**

### Stability (Measured)

Limit Positive Stab.: **114,7°**  
Stability Index: **115,2**

### Owner



<b>BOAT</b>		<b>GPH</b>		<b>HULL</b>			
Name <b>PARALOS</b> Sail Nr <b>GRE-1275</b>		<b>642,6</b>		Data File <b>GR1275</b>	LOA <b>9,983m</b>		
				Offset File <b>ELAN340.OFF</b>	MB <b>3,466m</b>		
				Displacement <b>5.172kg</b>	Draft <b>2,057m</b>		
<b>CLASS</b>				IMS Division <b>Cruiser/Racer</b>	Dynamic All. <b>0,222%</b>		
Class <b>ELAN 340</b>				Fwd Accom. <b>Yes</b>	Construction <b>Solid</b>		
Designer <b>R. HUMPHREYS</b>				Fiber Rigging <b>No</b>	Aramid Core <b>No</b>		
Builder <b>ELAN</b>				Crew Arm Ex	Carbon Rudder <b>No</b>		
Series <b>01/2006</b>					Light Stanchions <b>No</b>		
Age Date <b>01/2007</b>				IMSL <b>9,542m</b>	VCGD <b>0,162m</b>	Sink <b>17,71kg/mm</b>	
Age Allowance <b>0,390%</b>				RL <b>8,167m</b>	VCGM <b>0,102m</b>	WS <b>23,38m²</b>	
<b>COMMENTS</b>				LSM0 <b>9,566m</b>	Displacement/Length ratio <b>5,9084</b>		
				Water Ballast <b>0</b>	Trim Tab <b>No</b>		
				BLR Index <b>0,0000</b>			
<b>PROPELLER</b>				<b>CENTERBOARD</b>			
Installation <b>Strut</b>	PRD <b>0,404</b>			<b>N/A</b>			
Type <b>Folding 2 blades</b>	PBW <b>0,120</b>						
	PIPA <b>0,0037</b>						
<b>SCORING OPTIONS</b>							
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>			
Time on Distance	<b>624,6</b>			<b>698,9</b>			
Time on Time	<b>0,9605</b>			<b>0,9659</b>			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	<b>731,6</b>	<b>569,8</b>	<b>514,3</b>	<b>941,0</b>	<b>702,1</b>	<b>616,5</b>	
Time on Time	<b>0,9226</b>	<b>1,1846</b>	<b>1,3124</b>	<b>0,7173</b>	<b>0,9614</b>	<b>1,0949</b>	

<b>BOAT</b>	
Name <b>PARALOS</b>	Sail Nr <b>GRE-1275</b>
File <b>GR1275</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>27/04/2013</b>		SG <b>1,0210</b>	
FFM <b>1,312</b>	FF <b>1,311</b>	SFFP <b>0,360</b>	
FAM <b>1,039</b>	FA <b>1,044</b>	SAFP <b>9,513</b>	
W1 <b>65,1</b>	PD1 <b>252,0</b>	WD <b>10,244</b>	
W2 <b>65,1</b>	PD2 <b>252,0</b>	GSA <b>41,9</b>	
W3 <b>65,1</b>	PD3 <b>252,0</b>	RSA <b>6082,1</b>	
W4 <b>65,1</b>	PD4 <b>252,0</b>	PLM <b>2110,0</b>	
LCF from stem on CL / on sheer		<b>5,598 / 5,854</b>	
Maximum beam station from stem		<b>6,210</b>	
RM Measured		<b>97,0kg·m</b>	
RM Default		<b>104,0kg·m</b>	
Limit of positive stability / Stab.Index		<b>114,7° / 115,2</b>	
Freeboard at mast at 3,717		<b>1,156</b>	



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## 2018 Measurements Datasheet

<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>12,788</b>	E <b>4,530</b>	MDT1 <b>0,103</b>	MW <b>0,194</b>
IG <b>13,469</b>	J <b>3,670</b>	MDL1 <b>0,194</b>	GO <b>0,209</b>
ISP <b>14,339</b>	SFJ <b>0,047</b>	MDT2 <b>0,103</b>	BD <b>0,142</b>
BAS <b>1,679</b>	SPL <b>0,114</b>	MDL2 <b>0,114</b>	MWT
FSP <b>0,062</b>	TPS <b>4,550</b>	TL <b>0,998</b>	MCG

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

<b>PROPELLER</b>			
Installation <b>Strut</b>	PRD <b>0,404</b>		
Type <b>Folding 2 blades</b>	PBW <b>0,120</b>		
Twin Screw <b>No</b>	PIPA <b>0,0037</b>		
ST1 <b>0,065</b>	ST3 <b>0,180</b>	ST5 <b>0,300</b>	
ST2 <b>0,180</b>	ST4 <b>0,110</b>	EDL <b>2,370</b>	

<b>COMMENTS</b>	

<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	0,150	1,15	1,90	2,95	3,75	35,17	KALATZIS	18/12/2016	ZOUGANELI	Pentex						
<b>HEADSAILS (3)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
3	0,09	0,55	1,05	1,99	2,92	3,85	13,33	105%	26,32	Y		KALATZIS	12/05/2015	ZOUGANELI	Polyest	No 1 LIGHT
2	0,08	0,51	0,97	1,91	2,90	3,92	12,74	107%	24,78	Y		KALATZIS	28/03/2013	ZOUGANELI	Pentex	HIGH TACK
1	0,08	0,49	0,94	1,87	2,84	3,84	13,02	105%	24,76	Y		KALATZIS	06/02/2011	ZOUGANELI	Pentex	No 1
<b>SYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
<b>ASYMMETRIC SPINNAKERS (2)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
2	15,65	13,01	14,33	7,64	7,21	90,21	asym	KALATZIS	09/12/2015	ZOUGANELI	Nylon	BLACK				
1	13,90	12,99	13,45	7,27	7,62	82,24	asym	KALATZIS	15/03/2015	ZOUGANELI	Nylon	WHITE				

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>KALATZIS GRE-21</b>				
Date <b>27/04/2013</b>				
Comment				
Id	Item	Weight	Distance	VCG Description
1	Engine			VOLVO PENTA D1-30
Id	Item	Weight	Distance	Description

<b>MEASUREMENT INVENTORY</b>									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn	Description	
1	Tank	FUEL	INOX	100,0	7,98		25,0		
2	Tank	WATER	PVC hard	100,0	4,08		0,0 S		
3	Tank	WATER	pvc hard	100,0	4,08		0,0 P		
Id	Item	Weight	Distance	VCG	Description				
1	Battery		5,08		2 x 100 Ah (P)				
2	Battery		5,08		1 x 70 Ah (P)				
1	Misc		0,95		ANCHOR WINDLASS LEWMAR X2				
2	Misc		4,67		WATER HEATER 20L (P)				



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# 2018

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>PARALOS</b>	Certificate Number	<b>F00954</b>
Sail Nr	<b>GRE-1275</b>	Issued On	<b>31/3/2018</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1086,4</b>	<b>901,7</b>	<b>794,8</b>	<b>738,9</b>	<b>720,1</b>	<b>713,3</b>	<b>703,9</b>
52°	<b>721,1</b>	<b>607,7</b>	<b>545,8</b>	<b>522,2</b>	<b>512,8</b>	<b>509,2</b>	<b>505,9</b>
60°	<b>686,8</b>	<b>580,7</b>	<b>530,5</b>	<b>510,3</b>	<b>500,0</b>	<b>495,6</b>	<b>493,3</b>
75°	<b>661,5</b>	<b>562,1</b>	<b>520,2</b>	<b>500,0</b>	<b>486,4</b>	<b>476,4</b>	<b>467,7</b>
90°	<b>642,2</b>	<b>539,1</b>	<b>503,9</b>	<b>490,6</b>	<b>481,3</b>	<b>466,3</b>	<b>442,8</b>
110°	<b>637,0</b>	<b>533,4</b>	<b>496,7</b>	<b>473,7</b>	<b>453,5</b>	<b>441,3</b>	<b>422,2</b>
120°	<b>656,0</b>	<b>545,6</b>	<b>502,8</b>	<b>477,5</b>	<b>453,0</b>	<b>430,5</b>	<b>402,8</b>
135°	<b>726,0</b>	<b>593,8</b>	<b>524,5</b>	<b>494,5</b>	<b>471,0</b>	<b>446,4</b>	<b>400,4</b>
150°	<b>853,8</b>	<b>684,2</b>	<b>584,1</b>	<b>530,7</b>	<b>504,7</b>	<b>486,8</b>	<b>448,1</b>
Run VMG	<b>985,9</b>	<b>790,1</b>	<b>674,4</b>	<b>612,8</b>	<b>571,8</b>	<b>526,9</b>	<b>482,7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1036,2</b>	<b>845,9</b>	<b>734,6</b>	<b>675,8</b>	<b>645,9</b>	<b>620,1</b>	<b>593,3</b>
Circular Random	<b>879,8</b>	<b>712,2</b>	<b>623,4</b>	<b>573,0</b>	<b>542,7</b>	<b>523,1</b>	<b>498,0</b>
Coastal / Long Distance	<b>1031,1</b>	<b>794,2</b>	<b>663,1</b>	<b>590,4</b>	<b>554,1</b>	<b>523,5</b>	<b>476,0</b>
Non Spinnaker	<b>954,6</b>	<b>763,6</b>	<b>659,7</b>	<b>598,9</b>	<b>561,7</b>	<b>537,7</b>	<b>508,0</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>42,0°</b>	<b>40,3°</b>	<b>40,0°</b>	<b>38,8°</b>	<b>38,1°</b>	<b>38,0°</b>	<b>37,7°</b>
Beat VMG	<b>3,31</b>	<b>3,99</b>	<b>4,53</b>	<b>4,87</b>	<b>5,00</b>	<b>5,05</b>	<b>5,11</b>
52°	<b>4,99</b>	<b>5,92</b>	<b>6,60</b>	<b>6,89</b>	<b>7,02</b>	<b>7,07</b>	<b>7,12</b>
60°	<b>5,24</b>	<b>6,20</b>	<b>6,79</b>	<b>7,05</b>	<b>7,20</b>	<b>7,26</b>	<b>7,30</b>
75°	<b>5,44</b>	<b>6,40</b>	<b>6,92</b>	<b>7,20</b>	<b>7,40</b>	<b>7,56</b>	<b>7,70</b>
90°	<b>5,61</b>	<b>6,68</b>	<b>7,14</b>	<b>7,34</b>	<b>7,48</b>	<b>7,72</b>	<b>8,13</b>
110°	<b>5,65</b>	<b>6,75</b>	<b>7,25</b>	<b>7,60</b>	<b>7,94</b>	<b>8,16</b>	<b>8,53</b>
120°	<b>5,49</b>	<b>6,60</b>	<b>7,16</b>	<b>7,54</b>	<b>7,95</b>	<b>8,36</b>	<b>8,94</b>
135°	<b>4,96</b>	<b>6,06</b>	<b>6,86</b>	<b>7,28</b>	<b>7,64</b>	<b>8,06</b>	<b>8,99</b>
150°	<b>4,22</b>	<b>5,26</b>	<b>6,16</b>	<b>6,78</b>	<b>7,13</b>	<b>7,40</b>	<b>8,03</b>
Run VMG	<b>3,65</b>	<b>4,56</b>	<b>5,34</b>	<b>5,87</b>	<b>6,30</b>	<b>6,83</b>	<b>7,46</b>
Gybe Angles	<b>145,1°</b>	<b>148,3°</b>	<b>148,0°</b>	<b>149,9°</b>	<b>174,3°</b>	<b>177,1°</b>	<b>178,2°</b>