



**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 **00242**  
Issued On **10/06/2020**  
ORC Ref **03420000KC0**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**

Default 700kg  
Maximum **450kg**  
Minimum\* **338kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

ToD ToT  
Non Spin GPH **815.4 0.7358**  
Non Spin OSN **783.6 0.7657**

**Sails Limitations**

Headsails **5** Spinnakers **4**  
**Woven Polyester**  
**Asymmetric on centerline**  
**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 89.30**  
Flying H/S: **No**  
Spin. Pole: **No**

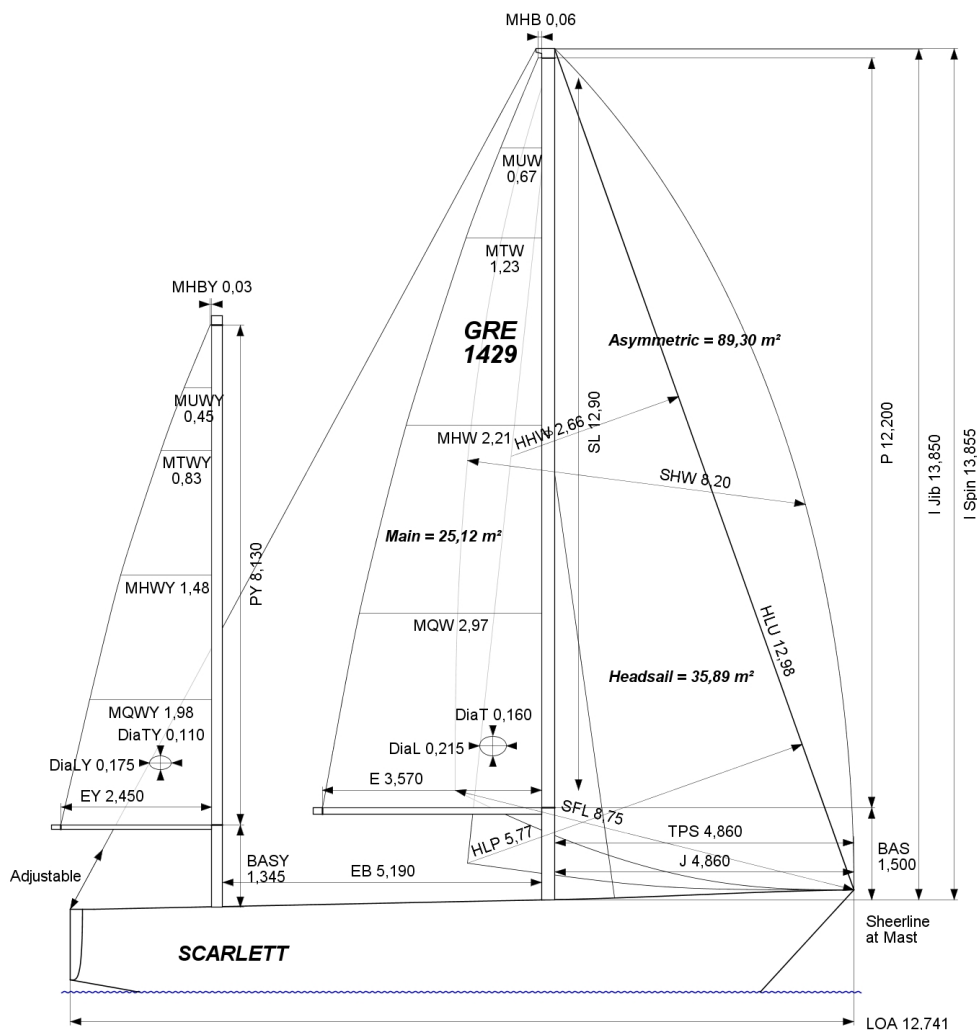
**Class Division Length**

**CDL = 7.367**

**Stability (Estimated)**

Limit Positive Stab.: **114.9°**  
Stability Index: **123.2**

**Owner**



<b>BOAT</b> Name <b>SCARLETT</b> Sail Nr <b>GRE-1429</b>	<b>GPH</b> <b>775.2</b>	<b>HULL</b> Data File <b>GR1429</b> LOA <b>12.741m</b> Offset File <b>scarlett.off</b> MB <b>4.060m</b> Displacement <b>12,494kg</b> Draft <b>1.713m</b> IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.755%</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>10.334m</b> VCGD <b>0.195m</b> Sink <b>26.49kg/mm</b> RL <b>4.399m</b> VCGM <b>0.233m</b> WS <b>36.47m²</b> LSM0 <b>10.115m</b> Displacement/Length ratio <b>12.0727</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>
<b>CLASS</b> Class <b>MOODY 42 DS</b> Designer <b>Angus Primrose</b> Builder <b>MOODY</b> Series <b>01/1977</b> Age Date <b>01/1977</b> Age Allowance <b>0.487%</b>	<b>COMMENTS</b> Weighted by measurer.	<b>CENTERBOARD</b> <b>N/A</b>
<b>PROPELLER</b> Installation <b>Shaft non exposed</b> PRD <b>0.520</b> Type <b>Solid 3 blades</b> PIPA <b>0.0162</b>		

SCORING OPTIONS	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Time on Distance	<b>751.7</b>			<b>868.9</b>	
Time on Time	<b>0.7981</b>			<b>0.7768</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>930.6</b>	<b>678.6</b>	<b>572.9</b>	<b>1231.3</b>	<b>883.7</b>	<b>726.2</b>
Time on Time	<b>0.7253</b>	<b>0.9947</b>	<b>1.1783</b>	<b>0.5482</b>	<b>0.7638</b>	<b>0.9295</b>

<b>BOAT</b>	
Name <b>SCARLETT</b>	Sail Nr <b>GRE-1429</b>
File <b>GR1429</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Club Estimated VCG</b>			
Flotation date <b>07/02/2010</b>		SG	
FFM	FF	1.642	SFFP 0.902
FAM	FA	1.343	SAFP 12.146
LCF from stem on CL / on sheer		7.027 / 7.308	
Maximum beam station from stem		7.138	
RM Measured		248.5kg-m	
RM Default		241.3kg-m	
Limit of positive stability / Stab.Index		114.9° / 123.2	
Freeboard at mast at 4.860		1.499	



**2020**  
Measurements  
Datasheet

<b>RIG</b>			
Forestay Tension <b>Aft</b>	Spreaders <b>1</b>		
Inner Stay <b>Fixed</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>12.200</b>	E <b>3.570</b>	MDT1 <b>0.160</b>	MW <b>0.000</b>
IG <b>13.850</b>	J <b>4.860</b>	MDL1 <b>0.215</b>	GO <b>0.000</b>
ISP <b>13.855</b>	SFJ	MDT2	BD <b>0.104</b>
BAS <b>1.500</b>	SPL	MDL2	MWT
FSD <b>-3.000</b>	TPS <b>4.860</b>	TL <b>-3.000</b>	MCG

<b>MIZZEN RIG AND SAILS</b>			
PY <b>8.130</b>	EY <b>2.450</b>	MDL1Y <b>0.175</b>	EB <b>5.190</b>
IY	MDT1Y <b>0.110</b>	MDL2Y	BASY <b>1.345</b>
TLY <b>0.000</b>	MDT2Y	BDY <b>0.075</b>	
YSD <b>0.00</b>	MHBY <b>0.03</b>	MHWY <b>1.48</b>	
YSMG <b>0.00</b>	MUWY <b>0.45</b>	MQWY <b>1.98</b>	
YSF <b>0.00</b>	MTWY <b>0.83</b>	Area <b>11.38</b>	

<b>PROPELLER</b>		
Installation <b>Shaft non exposed</b>	PRD <b>0.520</b>	
Type <b>Solid 3 blades</b>	PBW	
Twin Screw <b>No</b>	PIPA <b>0.0162</b>	
PSA	PHD	ESL
PSD	PHL	

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<b>COMMENTS</b>	
Weighted by measurer.	

<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					
MS1	0.06	0.67	1.23	2.21	2.97	25.13		18/02/2010	HOOD	Dacron						
<b>HEADSAILS (2)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.06	0.66	1.30	2.66	4.14	5.77	12.98	119%	35.89	No			29/10/2019		Dacron	
1	0.06	0.66	1.23	2.65	4.14	5.72	12.99	118%	35.63	No			29/10/2019		Dacron	
<b>SYMMETRIC SPINNAKERS (0)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
<b>ASYMMETRIC SPINNAKERS (1)</b>																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
AS1	13.44	12.35	12.90	8.20	8.75	89.30	asym		18/02/2010		Nylon					

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>			
Name	<b>SCARLETT</b>	Certificate Number	<b>00242</b>
Sail Nr	<b>GRE-1429</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>1573.8</b>	<b>1262.8</b>	<b>1103.9</b>	<b>1006.8</b>	<b>938.6</b>	<b>888.6</b>	<b>860.9</b>
52°	<b>973.2</b>	<b>787.3</b>	<b>694.6</b>	<b>636.3</b>	<b>590.9</b>	<b>556.0</b>	<b>534.2</b>
60°	<b>874.8</b>	<b>722.5</b>	<b>643.1</b>	<b>587.2</b>	<b>543.9</b>	<b>516.3</b>	<b>495.6</b>
75°	<b>809.3</b>	<b>677.3</b>	<b>601.1</b>	<b>545.1</b>	<b>510.6</b>	<b>491.1</b>	<b>471.0</b>
90°	<b>777.6</b>	<b>639.6</b>	<b>554.6</b>	<b>503.5</b>	<b>480.1</b>	<b>468.9</b>	<b>460.6</b>
110°	<b>755.2</b>	<b>622.7</b>	<b>538.8</b>	<b>493.5</b>	<b>471.2</b>	<b>455.5</b>	<b>429.9</b>
120°	<b>782.5</b>	<b>638.5</b>	<b>551.0</b>	<b>499.6</b>	<b>474.8</b>	<b>458.0</b>	<b>428.6</b>
135°	<b>868.0</b>	<b>692.9</b>	<b>594.6</b>	<b>526.9</b>	<b>489.8</b>	<b>469.7</b>	<b>439.9</b>
150°	<b>1014.1</b>	<b>794.7</b>	<b>675.8</b>	<b>598.6</b>	<b>544.3</b>	<b>509.6</b>	<b>471.1</b>
Run VMG	<b>1171.0</b>	<b>917.7</b>	<b>780.3</b>	<b>691.2</b>	<b>628.5</b>	<b>578.6</b>	<b>500.1</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1372.4</b>	<b>1090.3</b>	<b>942.1</b>	<b>849.0</b>	<b>783.5</b>	<b>733.6</b>	<b>680.5</b>
Circular Random	<b>1106.5</b>	<b>877.9</b>	<b>750.4</b>	<b>672.4</b>	<b>622.1</b>	<b>588.5</b>	<b>549.4</b>
Coastal / Long Distance	<b>1352.2</b>	<b>1012.0</b>	<b>829.5</b>	<b>708.9</b>	<b>633.1</b>	<b>577.2</b>	<b>506.4</b>
Non Spinnaker	<b>1181.3</b>	<b>930.3</b>	<b>788.6</b>	<b>700.6</b>	<b>642.7</b>	<b>603.6</b>	<b>558.1</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>49.5°</b>	<b>48.8°</b>	<b>47.6°</b>	<b>47.3°</b>	<b>47.3°</b>	<b>48.0°</b>	<b>49.9°</b>
Beat VMG	<b>2.29</b>	<b>2.85</b>	<b>3.26</b>	<b>3.58</b>	<b>3.84</b>	<b>4.05</b>	<b>4.18</b>
52°	<b>3.70</b>	<b>4.57</b>	<b>5.18</b>	<b>5.66</b>	<b>6.09</b>	<b>6.47</b>	<b>6.74</b>
60°	<b>4.12</b>	<b>4.98</b>	<b>5.60</b>	<b>6.13</b>	<b>6.62</b>	<b>6.97</b>	<b>7.26</b>
75°	<b>4.45</b>	<b>5.32</b>	<b>5.99</b>	<b>6.60</b>	<b>7.05</b>	<b>7.33</b>	<b>7.64</b>
90°	<b>4.63</b>	<b>5.63</b>	<b>6.49</b>	<b>7.15</b>	<b>7.50</b>	<b>7.68</b>	<b>7.82</b>
110°	<b>4.77</b>	<b>5.78</b>	<b>6.68</b>	<b>7.30</b>	<b>7.64</b>	<b>7.90</b>	<b>8.37</b>
120°	<b>4.60</b>	<b>5.64</b>	<b>6.53</b>	<b>7.21</b>	<b>7.58</b>	<b>7.86</b>	<b>8.40</b>
135°	<b>4.15</b>	<b>5.20</b>	<b>6.05</b>	<b>6.83</b>	<b>7.35</b>	<b>7.67</b>	<b>8.18</b>
150°	<b>3.55</b>	<b>4.53</b>	<b>5.33</b>	<b>6.01</b>	<b>6.61</b>	<b>7.06</b>	<b>7.64</b>
Run VMG	<b>3.07</b>	<b>3.92</b>	<b>4.61</b>	<b>5.21</b>	<b>5.73</b>	<b>6.22</b>	<b>7.20</b>
Gybe Angles	<b>145.5°</b>	<b>146.5°</b>	<b>146.0°</b>	<b>145.5°</b>	<b>146.5°</b>	<b>174.0°</b>	<b>177.0°</b>