



**2020**  
ORC Club  
Certificate

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



**Certificate**  
Number **00245**  
Issued On **10/06/2020**  
ORC Ref **03420000KBR**  
VPP Ver. **2020 1.02**  
Valid until **28/02/2021**

**Crew Weight**  
Default 395kg  
Maximum **364kg**  
Minimum\* **273kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

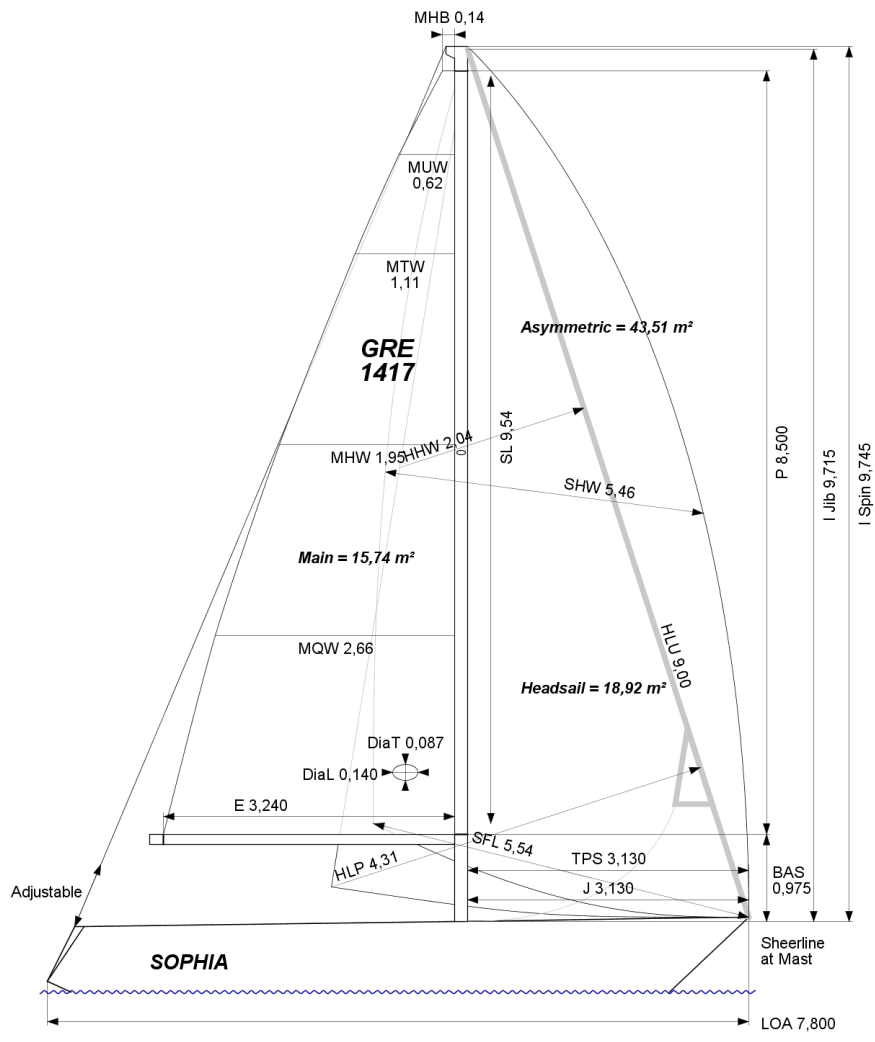
**Special Scoring**  
ToD ToT  
Non Spin GPH **817.9 0.7336**  
Non Spin OSN **789.3 0.7602**

**Sails Limitations**  
Headsails 1 Spinnakers 4  
**Asymmetric on centerline**  
**Spinnaker configuration**  
Symmetric: **No**  
Asymmetric: **Yes 43.51**  
Flying H/S: **No**  
Spin. Pole: **No**

**Class Division Length**  
CDL = **6.009**

**Stability (Estimated)**  
Limit Positive Stab.: **116.3°**  
Stability Index: **115.7**

**Owner**



<b>BOAT</b> Name <b>SOPHIA</b> Sail Nr <b>GRE-1417</b>		<b>GPH</b> <b>786.0</b>	<b>HULL</b> Data File <b>GR1417</b> LOA <b>7.800m</b> Offset File <b>CONT25.OFF</b> MB <b>2.864m</b> Displacement <b>3,148kg</b> Draft <b>1.637m</b>			
<b>CLASS</b> Class <b>CONTESSA 25</b> Designer <b>JEREMY ROGERS</b> Builder Series <b>01/1978</b> Age Date <b>01/1977</b> Age Allowance <b>0.487%</b>		IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.675%</b> Plan Review Construction 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>6.617m</b> VCGD <b>0.044m</b> Sink <b>9.56kg/mm</b> RL <b>5.401m</b> VCGM <b>-0.028m</b> WS <b>14.62m<sup>2</sup></b> LSM0 <b>6.775m</b> Displacement/Length ratio <b>10.1229</b>		
<b>COMMENTS</b> Weighted by measurer.		Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>		<b>CENTERBOARD</b>  <b>N/A</b>		
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.355</b> Type <b>Folding 2 blades</b> PIPA <b>0.0012</b>						
<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>766.5</b>			<b>854.6</b>		
Time on Time	<b>0.7828</b>			<b>0.7898</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>894.9</b>	<b>698.8</b>	<b>623.8</b>	<b>1148.9</b>	<b>864.1</b>	<b>740.5</b>
Time on Time	<b>0.7543</b>	<b>0.9659</b>	<b>1.0820</b>	<b>0.5875</b>	<b>0.7812</b>	<b>0.9115</b>

<b>BOAT</b>	
Name <b>SOPHIA</b>	Sail Nr <b>GRE-1417</b>
File <b>GR1417</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>8.500</b>	E <b>3.240</b> MDT1 <b>0.087</b> MW <b>0.140</b>
IG <b>9.715</b>	J <b>3.130</b> MDL1 <b>0.140</b> GO <b>0.160</b>
ISP <b>9.745</b>	SFJ <b>0.000</b> MDT2
BAS <b>0.975</b>	SPL <b>0.000</b> MDL2
FSD <b>-2.000</b>	TPS <b>3.130</b> TL <b>-3.000</b> MCG

<b>INCLINING TEST AND FREEBOARDS</b>	
Inclining Test <b>Club Estimated VCG</b>	
Flotation date <b>04/02/2010</b>	SG <b>1.0262</b>
FFM <b>0.770</b>	FF <b>0.821</b> SFFP <b>0.692</b>
FAM <b>0.757</b>	FA <b>0.727</b> SAFF <b>7.395</b>
LCF from stem on CL / on sheer	<b>4.398 / 4.611</b>
Maximum beam station from stem	<b>4.626</b>
RM Measured	<b>34.0kg·m</b>
RM Default	<b>33.0kg·m</b>
Limit of positive stability / Stab.Index	<b>116.3° / 115.7</b>
Freeboard at mast at 3.130	<b>0.782</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 exposed</b>	PRD <b>0.355</b>
Type <b>Folding 2 blades</b>	PBW
Twin Screw <b>No</b>	PIPA <b>0.0012</b>
PSA	PHL ST3 ESL
PSD	ST1 ST4
PHD	ST2 ST5

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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					
01	0.14	0.62	1.11	1.95	2.66	15.75		04/02/2010		Dacron						
<b>HEADSAILS (1)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovr/tp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.04	0.52	1.01	2.04	3.16	4.31	9.00	138%	18.92	Y	No		29/05/2020		Unknow	
<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				
01	9.97	9.10	9.54	5.46	5.54	43.52	asym		04/02/2010		Nylon					

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date				
Comment				
<b>Internal Ballast total = 0.0</b>				
Id	Item	Weight	Distance	VCG Description
4	Ancher	7.3	0.50	
2	Chain	55.0	0.50	40m x 8mm
Id	Item	Weight	Description	

<b>MEASUREMENT INVENTORY</b>				
Id	Item	Weight	Distance	VCG Description

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name <b>SOPHIA</b>	Certificate Number <b>00245</b>
Sail Nr <b>GRE-1417</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>1314.1</b>	<b>1110.2</b>	<b>991.8</b>	<b>908.6</b>	<b>865.3</b>	<b>846.9</b>	<b>839.2</b>
52°	<b>869.1</b>	<b>742.3</b>	<b>668.2</b>	<b>635.1</b>	<b>617.6</b>	<b>607.2</b>	<b>599.9</b>
60°	<b>828.0</b>	<b>705.2</b>	<b>646.1</b>	<b>620.3</b>	<b>604.3</b>	<b>593.1</b>	<b>582.1</b>
75°	<b>800.4</b>	<b>681.9</b>	<b>630.6</b>	<b>607.4</b>	<b>591.1</b>	<b>577.5</b>	<b>556.0</b>
90°	<b>792.1</b>	<b>662.0</b>	<b>613.5</b>	<b>589.8</b>	<b>574.7</b>	<b>566.9</b>	<b>544.9</b>
110°	<b>785.0</b>	<b>656.9</b>	<b>609.4</b>	<b>583.1</b>	<b>560.0</b>	<b>539.0</b>	<b>514.7</b>
120°	<b>816.0</b>	<b>673.7</b>	<b>617.0</b>	<b>588.6</b>	<b>564.4</b>	<b>541.1</b>	<b>505.6</b>
135°	<b>894.7</b>	<b>738.1</b>	<b>643.4</b>	<b>606.1</b>	<b>581.6</b>	<b>559.0</b>	<b>518.5</b>
150°	<b>1035.9</b>	<b>844.6</b>	<b>723.9</b>	<b>659.9</b>	<b>623.4</b>	<b>600.9</b>	<b>564.0</b>
Run VMG	<b>1196.2</b>	<b>975.2</b>	<b>835.8</b>	<b>761.9</b>	<b>687.9</b>	<b>637.9</b>	<b>590.2</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1255.1</b>	<b>1042.7</b>	<b>913.8</b>	<b>835.3</b>	<b>776.6</b>	<b>742.4</b>	<b>714.7</b>
Circular Random	<b>1074.8</b>	<b>871.9</b>	<b>763.3</b>	<b>700.1</b>	<b>661.1</b>	<b>636.0</b>	<b>605.8</b>
Coastal / Long Distance	<b>1249.3</b>	<b>978.4</b>	<b>821.7</b>	<b>726.2</b>	<b>672.2</b>	<b>635.2</b>	<b>580.2</b>
Non Spinnaker	<b>1137.7</b>	<b>914.6</b>	<b>793.1</b>	<b>721.1</b>	<b>676.5</b>	<b>647.9</b>	<b>614.7</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>42.4°</b>	<b>40.5°</b>	<b>40.9°</b>	<b>40.1°</b>	<b>38.6°</b>	<b>38.3°</b>	<b>38.3°</b>
Beat VMG	<b>2.74</b>	<b>3.24</b>	<b>3.63</b>	<b>3.96</b>	<b>4.16</b>	<b>4.25</b>	<b>4.29</b>
52°	<b>4.14</b>	<b>4.85</b>	<b>5.39</b>	<b>5.67</b>	<b>5.83</b>	<b>5.93</b>	<b>6.00</b>
60°	<b>4.35</b>	<b>5.10</b>	<b>5.57</b>	<b>5.80</b>	<b>5.96</b>	<b>6.07</b>	<b>6.18</b>
75°	<b>4.50</b>	<b>5.28</b>	<b>5.71</b>	<b>5.93</b>	<b>6.09</b>	<b>6.23</b>	<b>6.47</b>
90°	<b>4.54</b>	<b>5.44</b>	<b>5.87</b>	<b>6.10</b>	<b>6.26</b>	<b>6.35</b>	<b>6.61</b>
110°	<b>4.59</b>	<b>5.48</b>	<b>5.91</b>	<b>6.17</b>	<b>6.43</b>	<b>6.68</b>	<b>6.99</b>
120°	<b>4.41</b>	<b>5.34</b>	<b>5.83</b>	<b>6.12</b>	<b>6.38</b>	<b>6.65</b>	<b>7.12</b>
135°	<b>4.02</b>	<b>4.88</b>	<b>5.60</b>	<b>5.94</b>	<b>6.19</b>	<b>6.44</b>	<b>6.94</b>
150°	<b>3.48</b>	<b>4.26</b>	<b>4.97</b>	<b>5.46</b>	<b>5.77</b>	<b>5.99</b>	<b>6.38</b>
Run VMG	<b>3.01</b>	<b>3.69</b>	<b>4.31</b>	<b>4.72</b>	<b>5.23</b>	<b>5.64</b>	<b>6.10</b>
Gybe Angles	<b>146.0°</b>	<b>146.5°</b>	<b>145.5°</b>	<b>148.5°</b>	<b>175.0°</b>	<b>177.5°</b>	<b>178.5°</b>