



# 2020 ORC Club Certificate

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



**Certificate**  
 Number **00228**  
 Issued On **30/06/2020**  
 ORC Ref **03420000LN7**  
 VPP Ver. **2020 1.02**  
 Valid until **28/02/2021**

**Crew Weight**

Default	484kg
Maximum	300kg
Minimum*	215kg

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

**Special Scoring**

ToD	ToT
Non Spin GPH <b>771.7</b>	<b>0.7775</b>
Non Spin OSN <b>747.1</b>	<b>0.8031</b>

**Sails Limitations**

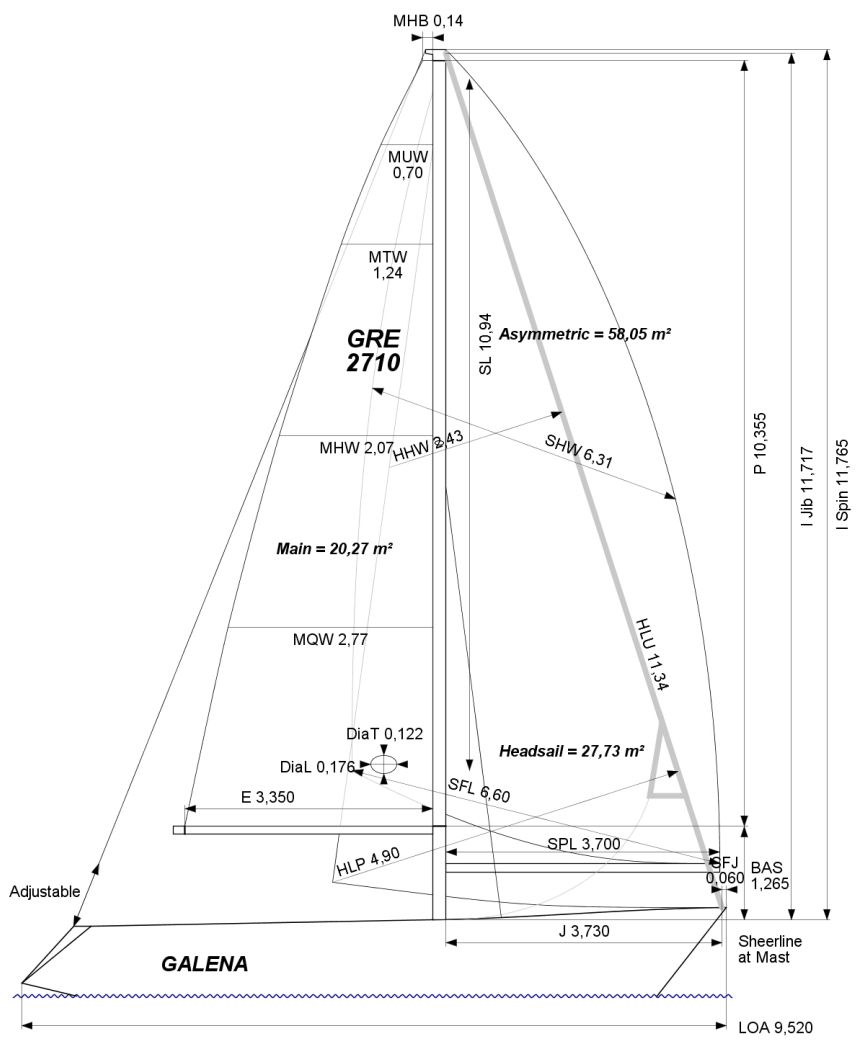
Headsails **1** Spinnakers **4**  
**Woven Polyester**

**Spinnaker configuration**  
 Symmetric: **No**  
 Asymmetric: **Yes 58.05**  
 Flying H/S: **No**  
 Spin. Pole: **Yes**

**Class Division Length**  
**CDL = 6.726**

**Stability (Measured)**  
 Limit Positive Stab.: **116.5°**  
 Stability Index: **116.7**

**Owner**



<b>BOAT</b> Name <b>GALENA</b> Sail Nr <b>GRE-2710</b>		<b>GPH</b> <b>738.5</b>	<b>HULL</b> Data File <b>GR2710</b> LOA <b>9.520m</b> Offset File <b>ELVANA.OFF</b> MB <b>3.246m</b> Displacement <b>4,491kg</b> Draft <b>1.530m</b> IMS Division <b>Cruiser/Racer</b> Dynamic All. <b>0.578%</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>7.901m</b> VCGD <b>-0.093m</b> Sink <b>13.95kg/mm</b> RL <b>5.558m</b> VCGM <b>0.035m</b> WS <b>19.34m²</b> LSMO <b>7.814m</b> Displacement/Length ratio <b>9.4129</b> Water Ballast <b>0</b> Trim Tab <b>No</b> BLR Index <b>0.0000</b>					
<b>CLASS</b> Class <b>NEREIS 32stern ext</b> Designer <b>VAN DE STADT</b> Builder <b>AKROPRORO</b> Series <b>03/1981</b> Age Date <b>06/1989</b> Age Allowance <b>0.487%</b>			<b>COMMENTS</b> JUPITER 30 WITH STERN EXTENSION ex "ELVANA"					
<b>PROPELLER</b> Installation <b>Shaft exposed</b> PRD <b>0.380</b> Type <b>Folding 2 blades</b> PBW <b>0.097</b> PIPA <b>0.0046</b>			<b>CENTERBOARD</b> <b>N/A</b>					
<b>SCORING OPTIONS</b>								
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>				
Time on Distance	<b>717.8</b>			<b>805.0</b>				
Time on Time	<b>0.8359</b>			<b>0.8385</b>				
Triple Number	Low	Medium	High	Low	Medium	High		
Time on Distance	<b>852.5</b>	<b>652.7</b>	<b>580.5</b>	<b>1102.4</b>	<b>813.3</b>	<b>699.8</b>		
Time on Time	<b>0.7918</b>	<b>1.0342</b>	<b>1.1628</b>	<b>0.6123</b>	<b>0.8300</b>	<b>0.9645</b>		

<b>BOAT</b>	
Name <b>GALENA</b>	Sail Nr <b>GRE-2710</b>
File <b>GR2710</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date <b>12/03/2005</b>		SG	
FFM <b>1.151</b>	FF <b>1.188</b>	SFFP <b>0.450</b>	
FAM <b>0.949</b>	FA <b>0.940</b>	SAFP <b>8.585</b>	
W1 <b>15.0</b>	PD1 <b>70.5</b>	WD <b>10.080</b>	
W2 <b>30.0</b>	PD2 <b>141.0</b>	GSA <b>28.3</b>	
W3 <b>44.9</b>	PD3 <b>211.5</b>	RSA <b>7697.0</b>	
W4 <b>59.9</b>	PD4 <b>282.0</b>	PLM <b>2100.0</b>	
LCF from stem on CL / on sheer		<b>5.171 / 5.413</b>	
Maximum beam station from stem		<b>5.140</b>	
RM Measured		<b>78.4kg-m</b>	
RM Default		<b>74.8kg-m</b>	
Limit of positive stability / Stab.Index		<b>116.5° / 116.7</b>	
Freeboard at mast at 3.790		<b>1.030</b>	



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

**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>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>10.355</b>	E <b>3.350</b>	MDT1 <b>0.122</b>	MW <b>0.176</b>
IG <b>11.717</b>	J <b>3.730</b>	MDL1 <b>0.176</b>	GO <b>0.210</b>
ISP <b>11.765</b>	SFJ <b>0.060</b>	MDT2 <b>0.122</b>	BD <b>0.100</b>
BAS <b>1.265</b>	SPL <b>3.700</b>	MDL2 <b>0.176</b>	MWT
FSD <b>0.030</b>	TPS	TL <b>0.000</b>	MCG

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

<b>PROPELLER</b>			
Installation <b>Shaft exposed</b>	PRD <b>0.380</b>		
Type <b>Folding 2 blades</b>	PBW <b>0.097</b>		
Twin Screw <b>No</b>	PIPA <b>0.0046</b>		
PSA <b>14.000</b>	PHL <b>0.145</b>	ST3 <b>0.060</b>	ESL <b>0.994</b>
PSD <b>0.025</b>	ST1 <b>0.012</b>	ST4 <b>0.066</b>	
PHD <b>0.072</b>	ST2 <b>0.056</b>	ST5 <b>0.176</b>	

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<b>COMMENTS</b>	
JUPITER 30 WITH STERN EXTENSION ex "ELVANA"	

<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	0.14	0.70	1.24	2.07	2.77	20.27		04/05/2011	KAKITSIS	Dacron						
<b>HEADSAILS (1)</b>																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.61	1.20	2.43	3.68	4.90	11.34	131%	27.73		No		04/05/2011	KAKITSIS	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				
1	11.92	9.96	10.94	6.31	6.60	58.06	asym		04/05/2011	KAKITSIS	Nylon					

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date <b>12/03/2005</b>				
Comment				
<b>Internal Ballast total = 0.0</b>				
Id	Item	Weight	Distance	VCG Description
4	Anchor	42.0	0.60	GQR
2	Anchor	7.5	7.80	Bruce
4	Chain	63.0	0.60	40m 8mm
2	Chain	32.5	7.80	20m 8mm
4	Toots	45.0	5.50	& 7.0m
Id	Item	Maker	Model	
1	Engine	KUBOTA	20HP	
Id	Item	Weight	Description	
4	Deck-Gear	40.0		

<b>MEASUREMENT INVENTORY</b>									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
1	Tank	Fuel		PVC	70.0	7.00			40.0
2	Tank	Water		St. Steel	75.0	4.20			0.0
3	Tank	Water		St. Steel	75.0	4.20			0.0
Id	Item	Weight	Distance	VCG Description					
1	Battery	44.0	7.00	2 x 100Ah					
1	Misc	40.0	7.50	Boiler 30lt					
2	Misc			Windlass					
3	Misc			FRIGO					

# 2020

## ORC Club Certificate Appendix

<b>BOAT</b>	
Name	<b>GALENA</b>
Sail Nr	<b>GRE-2710</b>
Certificate Number	<b>00228</b>
Issued On	<b>30/06/2020</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1306.2</b>	<b>1091.1</b>	<b>974.2</b>	<b>895.7</b>	<b>853.0</b>	<b>839.6</b>	<b>849.9</b>
52°	<b>838.4</b>	<b>713.8</b>	<b>636.1</b>	<b>593.5</b>	<b>574.5</b>	<b>567.0</b>	<b>566.3</b>
60°	<b>785.4</b>	<b>672.6</b>	<b>603.7</b>	<b>573.0</b>	<b>556.8</b>	<b>548.1</b>	<b>544.6</b>
75°	<b>747.5</b>	<b>638.8</b>	<b>582.3</b>	<b>557.0</b>	<b>541.0</b>	<b>529.1</b>	<b>515.0</b>
90°	<b>751.5</b>	<b>625.0</b>	<b>565.5</b>	<b>540.5</b>	<b>528.8</b>	<b>520.7</b>	<b>496.8</b>
110°	<b>736.8</b>	<b>611.1</b>	<b>558.0</b>	<b>531.5</b>	<b>510.3</b>	<b>491.4</b>	<b>471.1</b>
120°	<b>760.0</b>	<b>627.5</b>	<b>564.5</b>	<b>535.6</b>	<b>513.5</b>	<b>492.5</b>	<b>458.1</b>
135°	<b>833.8</b>	<b>686.0</b>	<b>593.3</b>	<b>552.7</b>	<b>528.2</b>	<b>506.3</b>	<b>465.9</b>
150°	<b>970.5</b>	<b>773.6</b>	<b>660.6</b>	<b>586.1</b>	<b>551.3</b>	<b>528.6</b>	<b>488.1</b>
Run VMG	<b>1120.7</b>	<b>891.9</b>	<b>759.6</b>	<b>665.6</b>	<b>598.6</b>	<b>559.7</b>	<b>515.7</b>
<b>Selected Courses</b>							
Windward / Leeward	<b>1213.4</b>	<b>991.5</b>	<b>866.9</b>	<b>780.6</b>	<b>725.8</b>	<b>699.6</b>	<b>682.8</b>
Circular Random	<b>1020.9</b>	<b>823.2</b>	<b>716.3</b>	<b>653.8</b>	<b>615.8</b>	<b>592.3</b>	<b>567.0</b>
Coastal / Long Distance	<b>1204.2</b>	<b>928.1</b>	<b>775.2</b>	<b>676.8</b>	<b>624.2</b>	<b>589.4</b>	<b>535.4</b>
Non Spinnaker	<b>1080.3</b>	<b>865.4</b>	<b>747.8</b>	<b>678.0</b>	<b>635.0</b>	<b>608.1</b>	<b>579.2</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>45.0°</b>	<b>43.1°</b>	<b>42.8°</b>	<b>43.5°</b>	<b>43.1°</b>	<b>42.6°</b>	<b>43.3°</b>
Beat VMG	<b>2.76</b>	<b>3.30</b>	<b>3.70</b>	<b>4.02</b>	<b>4.22</b>	<b>4.29</b>	<b>4.24</b>
52°	<b>4.29</b>	<b>5.04</b>	<b>5.66</b>	<b>6.07</b>	<b>6.27</b>	<b>6.35</b>	<b>6.36</b>
60°	<b>4.58</b>	<b>5.35</b>	<b>5.96</b>	<b>6.28</b>	<b>6.47</b>	<b>6.57</b>	<b>6.61</b>
75°	<b>4.82</b>	<b>5.64</b>	<b>6.18</b>	<b>6.46</b>	<b>6.65</b>	<b>6.80</b>	<b>6.99</b>
90°	<b>4.79</b>	<b>5.76</b>	<b>6.37</b>	<b>6.66</b>	<b>6.81</b>	<b>6.91</b>	<b>7.25</b>
110°	<b>4.89</b>	<b>5.89</b>	<b>6.45</b>	<b>6.77</b>	<b>7.05</b>	<b>7.33</b>	<b>7.64</b>
120°	<b>4.74</b>	<b>5.74</b>	<b>6.38</b>	<b>6.72</b>	<b>7.01</b>	<b>7.31</b>	<b>7.86</b>
135°	<b>4.32</b>	<b>5.25</b>	<b>6.07</b>	<b>6.51</b>	<b>6.82</b>	<b>7.11</b>	<b>7.73</b>
150°	<b>3.71</b>	<b>4.65</b>	<b>5.45</b>	<b>6.14</b>	<b>6.53</b>	<b>6.81</b>	<b>7.38</b>
Run VMG	<b>3.21</b>	<b>4.04</b>	<b>4.74</b>	<b>5.41</b>	<b>6.01</b>	<b>6.43</b>	<b>6.98</b>
Gybe Angles	<b>148.0°</b>	<b>152.0°</b>	<b>154.0°</b>	<b>158.0°</b>	<b>180.0°</b>	<b>180.0°</b>	<b>180.0°</b>