

<b>BOAT</b> Name <b>STONE AGE</b> Sail Nr <b>GRE-1668</b>	<b>GPH</b> <b>626.8</b>	<b>HULL</b> Length Overall <b>7.509m</b> Maximum Beam <b>2.502m</b> Displacement <b>776kg</b> Draft <b>1.516m</b> IMS Reg. Division <b>Sportboat</b> Dynamic Allowance <b>0.005%</b> Fwd Accommodation <b>No</b> Hull Construction <b>Cored</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>MELGES 24</b> Designer <b>Melges</b> Builder Series <b>01/1992, CIN GB WFM24 387-98</b> Age <b>01/1998</b> Age Allowance <b>0.487%</b> Offset File <b>e296.off - 19/05/2016 08:52:00</b> Measurement by <b>SPIRIDELI/VAFIAS - 15/04/2014</b>		IMSL <b>7.256m</b> VCGD <b>0.084m</b> Sink <b>8.60kg/mm</b> RL <b>7.605m</b> VCGM <b>0.069m</b> WS <b>10.32m<sup>2</sup></b> LSM0 <b>6.673m</b> Displacement/Length ratio <b>2.6116</b>



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	<b>609.5</b>			<b>692.9</b>		
Time on Time	<b>0.9844</b>			<b>0.9742</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>714.6</b>	<b>559.8</b>	<b>479.6</b>	<b>917.6</b>	<b>700.6</b>	<b>595.7</b>
Time on Time	<b>0.9446</b>	<b>1.2057</b>	<b>1.4074</b>	<b>0.7356</b>	<b>0.9635</b>	<b>1.1331</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1066.0</b>	<b>870.7</b>	<b>787.1</b>	<b>765.7</b>	<b>758.7</b>	<b>751.3</b>	<b>748.7</b>
52°	<b>696.6</b>	<b>592.7</b>	<b>556.7</b>	<b>544.2</b>	<b>537.5</b>	<b>530.2</b>	<b>518.8</b>
60°	<b>657.4</b>	<b>576.1</b>	<b>536.6</b>	<b>517.4</b>	<b>508.2</b>	<b>503.7</b>	<b>485.5</b>
75°	<b>630.3</b>	<b>563.8</b>	<b>515.5</b>	<b>477.2</b>	<b>462.5</b>	<b>454.3</b>	<b>430.9</b>
90°	<b>622.2</b>	<b>549.5</b>	<b>512.9</b>	<b>464.6</b>	<b>425.1</b>	<b>408.9</b>	<b>393.0</b>
110°	<b>613.9</b>	<b>534.3</b>	<b>474.1</b>	<b>442.6</b>	<b>412.4</b>	<b>389.3</b>	<b>332.8</b>
120°	<b>629.1</b>	<b>544.8</b>	<b>477.1</b>	<b>421.4</b>	<b>391.4</b>	<b>366.3</b>	<b>318.6</b>
135°	<b>705.7</b>	<b>580.3</b>	<b>518.1</b>	<b>455.3</b>	<b>395.0</b>	<b>342.2</b>	<b>279.8</b>
150°	<b>838.1</b>	<b>663.4</b>	<b>576.8</b>	<b>523.1</b>	<b>464.2</b>	<b>410.2</b>	<b>294.7</b>
Run VMG	<b>967.7</b>	<b>766.0</b>	<b>666.3</b>	<b>604.0</b>	<b>536.0</b>	<b>473.7</b>	<b>340.3</b>

**Certificate**

Number **001023**  
ORC Ref **GRE01010289**  
Issued On **28/07/2018**  
VPP Ver. **2018 1.00**  
Valid until **28/02/2019**

**Crew Weight**

Default **387kg**  
Maximum **360kg**  
Minimum\* **270kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>673.1</b>	<b>0.8914</b>
Non Spin OSN	<b>652.9</b>	<b>0.9189</b>

Selected Courses							
Windward / Leeward	<b>1016.9</b>	<b>818.3</b>	<b>726.7</b>	<b>684.8</b>	<b>647.3</b>	<b>612.5</b>	<b>544.5</b>
Circular Random	<b>860.7</b>	<b>697.7</b>	<b>609.6</b>	<b>556.0</b>	<b>519.2</b>	<b>490.7</b>	<b>444.6</b>
Coastal / Long Distance	<b>1012.0</b>	<b>771.3</b>	<b>656.2</b>	<b>586.0</b>	<b>536.9</b>	<b>494.5</b>	<b>418.0</b>
Non Spinnaker	<b>939.8</b>	<b>754.1</b>	<b>652.9</b>	<b>592.2</b>	<b>552.2</b>	<b>523.1</b>	<b>479.2</b>

**Sails Limitations**

Headsails	Spinnakers
<b>5</b>	<b>3</b>

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	<b>43.7°</b>	<b>41.4°</b>	<b>38.6°</b>	<b>37.6°</b>	<b>37.4°</b>	<b>37.4°</b>	<b>37.8°</b>
Beat VMG	<b>3.38</b>	<b>4.13</b>	<b>4.57</b>	<b>4.70</b>	<b>4.74</b>	<b>4.79</b>	<b>4.81</b>
52°	<b>5.17</b>	<b>6.07</b>	<b>6.47</b>	<b>6.62</b>	<b>6.70</b>	<b>6.79</b>	<b>6.94</b>
60°	<b>5.48</b>	<b>6.25</b>	<b>6.71</b>	<b>6.96</b>	<b>7.08</b>	<b>7.15</b>	<b>7.41</b>
75°	<b>5.71</b>	<b>6.38</b>	<b>6.98</b>	<b>7.54</b>	<b>7.78</b>	<b>7.92</b>	<b>8.35</b>
90°	<b>5.79</b>	<b>6.55</b>	<b>7.02</b>	<b>7.75</b>	<b>8.47</b>	<b>8.80</b>	<b>9.16</b>
110°	<b>5.86</b>	<b>6.74</b>	<b>7.59</b>	<b>8.13</b>	<b>8.73</b>	<b>9.25</b>	<b>10.82</b>
120°	<b>5.72</b>	<b>6.61</b>	<b>7.54</b>	<b>8.54</b>	<b>9.20</b>	<b>9.83</b>	<b>11.30</b>
135°	<b>5.10</b>	<b>6.20</b>	<b>6.95</b>	<b>7.91</b>	<b>9.11</b>	<b>10.52</b>	<b>12.87</b>
150°	<b>4.30</b>	<b>5.43</b>	<b>6.24</b>	<b>6.88</b>	<b>7.76</b>	<b>8.78</b>	<b>12.21</b>
Run VMG	<b>3.72</b>	<b>4.70</b>	<b>5.40</b>	<b>5.96</b>	<b>6.72</b>	<b>7.60</b>	<b>10.58</b>
Gybe Angles	<b>143.4°</b>	<b>147.2°</b>	<b>150.7°</b>	<b>148.3°</b>	<b>144.6°</b>	<b>144.6°</b>	<b>142.1°</b>

**Class Division Length**

CDL = **7.431**

**Storm Sails Areas**


Heavy Weather Jib	<b>9.82</b>
Storm Jib (JL=5.54)	<b>3.64</b>
Storm Triesail	<b>5.82</b>

**Owner**

<b>BOAT</b>	
Name <b>STONE AGE</b>	Sail Nr <b>GRE-1668</b>
File <b>GR1668</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>15/04/2014</b>	SG <b>1.0260</b>	
FFM <b>0.891</b>	FF <b>0.891</b>	SFFP <b>0.130</b>
FAM <b>0.581</b>	FA <b>0.581</b>	SAFP <b>7.370</b>
W1 <b>19.6</b>	PD1 <b>247.0</b>	WD <b>8.620</b>
W2 <b>19.6</b>	PD2 <b>247.0</b>	GSA <b>50.2</b>
W3 <b>19.6</b>	PD3 <b>247.0</b>	RSA <b>5941.7</b>
W4 <b>19.6</b>	PD4 <b>247.0</b>	PLM <b>2035.0</b>
LCF from stem on CL / on sheer		<b>4.188 / 4.318</b>
Maximum beam station from stem		<b>4.955</b>
RM Measured		<b>24.2kg·m</b>
RM Default		<b>26.3kg·m</b>
Limit of positive stability / Stab.Index		<b>101.2° / 92.6</b>
Freeboard at mast at 2.689		<b>0.805</b>

<b>RIG</b>				
Forestay Tension <b>Aft</b>	Spreaders <b>1</b>			
Inner Stay <b>None Fitted</b>	Runners <b>0</b>			
Carbon Mast <b>Yes</b>	Jumper Struts <b>None</b>			
Taper Hollows <b>No</b>	Jib Furler <b>Yes</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>8.820</b>	E <b>3.770</b>	MDT1 <b>0.076</b>	MW <b>0.112</b>	
IG <b>8.528</b>	J <b>2.506</b>	MDL1 <b>0.119</b>	GO <b>0.112</b>	
ISP <b>9.778</b>	SFJ <b>0.183</b>	MDT2 <b>0.066</b>	BD <b>0.103</b>	
BAS <b>0.989</b>	SPL	MDL2 <b>0.086</b>	MWT	
FSP <b>0.000</b>	TPS <b>3.884</b>	TL <b>1.289</b>	MCG	




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**IMS Measurement Certificate**

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

<b>PROPELLER</b>	
Type <b>No Propeller</b>	

<b>COMMENTS</b>	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.170	0.92	1.66	2.67	3.32	21.22	22.14	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric	SLU	SLE	SL	SHW	SFL	Area	Formula		
	11.47	10.07	10.77	5.82	6.20	52.92	AS · (SFL + 4·SHW) / 6		

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
<b>HHB</b>	<b>HUW</b>	<b>HTW</b>	<b>HHW</b>	<b>HQW</b>	<b>HLP</b>	<b>HLU</b>	<b>Area</b>	<b>Btn</b>	<b>Fly</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.05	0.39	0.75	1.40	2.07	2.75	8.42	11.80	Y		18/03/2017	Kevlar	

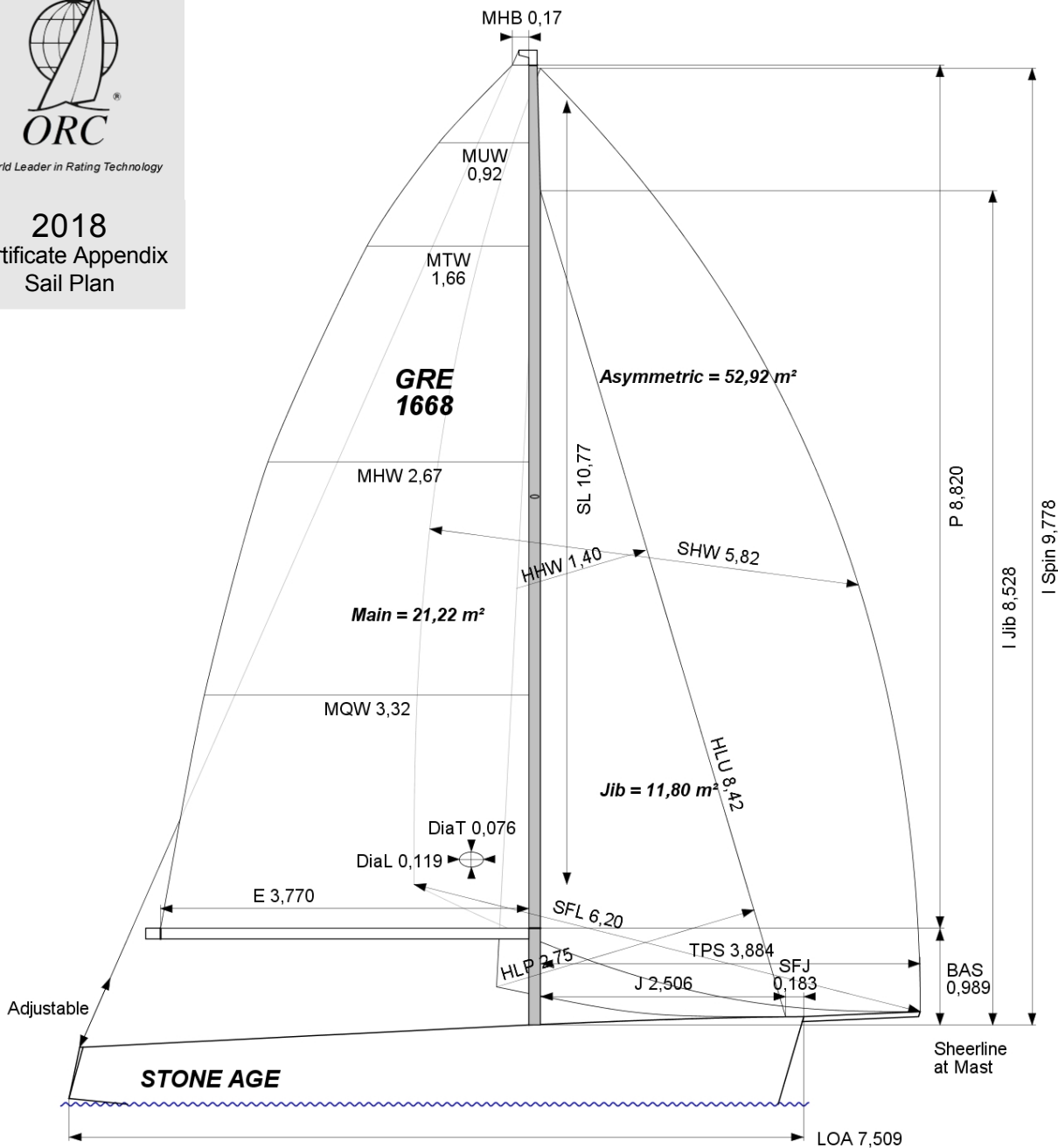
<b>MEASUREMENT INVENTORY</b>				
Measurer <b>SPIRIDELI/VAFIAS GRE-16 / GRE-143</b>				
Date <b>15/04/2014</b>				
Comment				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

<b>MEASUREMENT INVENTORY</b>				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
1	Ballast	6.5	2.50	two pieces of lead(?), one on each side
1	Battery	24.8	3.20	-0.12 44Ah
1	Misc	41.1	5.50	-0.05 outboard engine Yamaha 2.5HP 4stroke



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (3)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
3	0.170	0.92	1.66	2.67	3.32	21.22	GIAPANTZIS	18/03/2017	NORTH	Kevlar	
2	0.164	0.91	1.65	2.65	3.28	21.05	VAFIAS	02/04/2014	NORTH	Kevlar	

**HEADSAILS (1)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.39	0.75	1.40	2.07	2.75	8.42	110%	11.80	Y		GIAPANT	18/03/2017	NORTH	Kevlar	

**SYMMETRIC SPINNAKERS (0)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
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**ASYMMETRIC SPINNAKERS (2)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
2	11.47	10.07	10.77	5.82	6.20	52.92	asym	GIAPANTZIS	18/03/2017	NORTH	Nylon	
1	11.45	9.90	10.68	5.80	6.27	52.43	asym	VAFIAS	02/04/2014	NORTH	Nylon	