

<b>BOAT</b> Name <b>POSEIDON</b> Sail Nr <b>GRE-883</b>	<b>GPH</b> <b>646.5</b>	<b>HULL</b> Length Overall <b>11.293m</b> Maximum Beam <b>3.725m</b> Displacement <b>6,442kg</b> Draft <b>1.882m</b> Plan Review IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.254%</b> Hull Construction <b>Solid</b> Carbon Rudder <b>No</b> Crew Arm Extension
<b>GENERAL</b> Class <b>FIRST 38 S5</b> Designer <b>JEAN BERRET</b> Builder <b>BENETEAU</b> Series <b>01/1992</b> Age <b>01/1992</b> Age Allowance <b>0.487%</b> Offset File <b>US30030.BOF - 07/08/1991 19:52:04</b> Measurement by - <b>16/03/2005</b>		IMSLS <b>9.755m</b> VCGD <b>-0.027m</b> Sink <b>18.91kg/mm</b> RL <b>7.639m</b> VCGM <b>0.043m</b> WS <b>26.54m<sup>2</sup></b> LSM0 <b>9.509m</b> Displacement/Length ratio <b>7.4923</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>628.5</b>			<b>704.4</b>		
Time on Time	<b>0.9547</b>			<b>0.9582</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>742.7</b>	<b>571.5</b>	<b>514.0</b>	<b>961.5</b>	<b>708.5</b>	<b>619.2</b>
Time on Time	<b>0.9088</b>	<b>1.1811</b>	<b>1.3132</b>	<b>0.7020</b>	<b>0.9527</b>	<b>1.0901</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>1105.8</b>	<b>916.8</b>	<b>814.8</b>	<b>764.0</b>	<b>744.9</b>	<b>737.9</b>	<b>747.4</b>
52°	<b>716.9</b>	<b>605.4</b>	<b>543.6</b>	<b>518.5</b>	<b>509.5</b>	<b>505.5</b>	<b>504.9</b>
60°	<b>675.1</b>	<b>573.5</b>	<b>523.5</b>	<b>503.2</b>	<b>493.7</b>	<b>489.5</b>	<b>487.5</b>
75°	<b>643.5</b>	<b>549.7</b>	<b>509.3</b>	<b>490.2</b>	<b>477.9</b>	<b>469.1</b>	<b>461.4</b>
90°	<b>647.9</b>	<b>550.0</b>	<b>506.3</b>	<b>485.9</b>	<b>470.9</b>	<b>457.9</b>	<b>437.7</b>
110°	<b>659.1</b>	<b>543.1</b>	<b>495.6</b>	<b>472.3</b>	<b>453.7</b>	<b>442.1</b>	<b>425.2</b>
120°	<b>676.4</b>	<b>554.7</b>	<b>500.2</b>	<b>474.4</b>	<b>453.1</b>	<b>433.3</b>	<b>408.8</b>
135°	<b>744.7</b>	<b>605.2</b>	<b>524.8</b>	<b>489.6</b>	<b>467.0</b>	<b>445.2</b>	<b>405.4</b>
150°	<b>881.1</b>	<b>698.2</b>	<b>590.0</b>	<b>522.4</b>	<b>490.3</b>	<b>468.9</b>	<b>428.4</b>
Run VMG	<b>1017.4</b>	<b>806.2</b>	<b>680.9</b>	<b>596.8</b>	<b>540.3</b>	<b>501.4</b>	<b>458.7</b>

**Certificate**  
Number **00264**  
ORC Ref **03420000KD1**  
Issued On **10/06/2020**  
VPP Ver. **2020 1.02**  
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**Crew Weight**  
Default **641kg**  
Maximum **450kg**  
Minimum\* **338kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>677.2</b>	<b>0.8860</b>
Non Spin OSN	<b>657.4</b>	<b>0.9126</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>1061.6</b>	<b>861.5</b>	<b>747.9</b>	<b>680.4</b>	<b>642.6</b>	<b>619.7</b>	<b>603.1</b>
Circular Random	<b>891.1</b>	<b>718.9</b>	<b>626.9</b>	<b>574.2</b>	<b>542.7</b>	<b>523.3</b>	<b>502.1</b>
Coastal / Long Distance	<b>1057.2</b>	<b>808.1</b>	<b>671.8</b>	<b>592.3</b>	<b>551.9</b>	<b>521.3</b>	<b>475.1</b>
Non Spinnaker	<b>946.9</b>	<b>758.2</b>	<b>655.9</b>	<b>596.2</b>	<b>560.0</b>	<b>537.4</b>	<b>512.1</b>

**Sails Limitations**

Headsails	Spinnakers
<b>5</b>	<b>4</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>43.5°</b>	<b>42.0°</b>	<b>42.0°</b>	<b>41.8°</b>	<b>41.3°</b>	<b>40.9°</b>	<b>42.0°</b>
Beat VMG	<b>3.26</b>	<b>3.93</b>	<b>4.42</b>	<b>4.71</b>	<b>4.83</b>	<b>4.88</b>	<b>4.82</b>
52°	<b>5.02</b>	<b>5.95</b>	<b>6.62</b>	<b>6.94</b>	<b>7.07</b>	<b>7.12</b>	<b>7.13</b>
60°	<b>5.33</b>	<b>6.28</b>	<b>6.88</b>	<b>7.15</b>	<b>7.29</b>	<b>7.35</b>	<b>7.38</b>
75°	<b>5.59</b>	<b>6.55</b>	<b>7.07</b>	<b>7.34</b>	<b>7.53</b>	<b>7.67</b>	<b>7.80</b>
90°	<b>5.56</b>	<b>6.55</b>	<b>7.11</b>	<b>7.41</b>	<b>7.64</b>	<b>7.86</b>	<b>8.22</b>
110°	<b>5.46</b>	<b>6.63</b>	<b>7.26</b>	<b>7.62</b>	<b>7.93</b>	<b>8.14</b>	<b>8.47</b>
120°	<b>5.32</b>	<b>6.49</b>	<b>7.20</b>	<b>7.59</b>	<b>7.95</b>	<b>8.31</b>	<b>8.81</b>
135°	<b>4.83</b>	<b>5.95</b>	<b>6.86</b>	<b>7.35</b>	<b>7.71</b>	<b>8.09</b>	<b>8.88</b>
150°	<b>4.09</b>	<b>5.16</b>	<b>6.10</b>	<b>6.89</b>	<b>7.34</b>	<b>7.68</b>	<b>8.40</b>
Run VMG	<b>3.54</b>	<b>4.47</b>	<b>5.29</b>	<b>6.03</b>	<b>6.66</b>	<b>7.18</b>	<b>7.85</b>
Gybe Angles	<b>145.5°</b>	<b>150.0°</b>	<b>151.0°</b>	<b>156.0°</b>	<b>174.0°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**  
CDL = **8.694**

**Storm Sails Areas**  
Heavy Weather Jib **28.33**  
Storm Jib (JL=9.42) **10.49**  
Storm Trysail **10.66**

**Owner**

<b>BOAT</b>	
Name <b>POSEIDON</b>	Sail Nr <b>GRE-883</b>
File <b>GR883</b>	Data in <b>meters/kilograms</b>

<b>RIG</b>	
Forestay Tension <b>Aft</b>	Spreaders <b>2</b>
Inner Stay <b>None Fitted</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>13.300</b>	E <b>4.580</b> MDT1 <b>0.110</b> MW <b>0.200</b>
IG <b>14.410</b>	J <b>3.900</b> MDL1 <b>0.200</b> GO <b>0.220</b>
ISP <b>14.410</b>	SFJ <b>0.400</b> MDT2 <b>0.110</b> BD <b>0.160</b>
BAS <b>1.590</b>	SPL <b>4.280</b> MDL2 <b>0.180</b> MWT <b>157.20</b>
FSD <b>0.037</b>	TPS TL <b>0.720</b> MCG <b>5.717</b>

<b>INCLINING TEST AND FREEBOARDS</b>		
Inclining Test <b>Current Inclining</b>		
Flotation date <b>12/03/2005</b>		SG <b>1.0250</b>
FFM <b>1.353</b>	FF <b>1.354</b>	SFFP <b>0.297</b>
FAM <b>1.078</b>	FA <b>1.080</b>	SAFP <b>9.877</b>
W1 <b>68.5</b>	PD1 <b>235.0</b>	WD <b>11.700</b>
W2 <b>68.5</b>	PD2 <b>235.0</b>	GSA <b>28.3</b>
W3 <b>68.5</b>	PD3 <b>235.0</b>	RSA <b>7679.0</b>
W4 <b>68.5</b>	PD4 <b>235.0</b>	PLM <b>2100.0</b>
LCF from stem on CL / on sheer		<b>5.995 / 6.221</b>
Maximum beam station from stem		<b>6.858</b>
RM Measured		<b>124.9kg-m</b>
RM Default		<b>130.0kg-m</b>
Limit of positive stability / Stab.Index		<b>117.2° / 118.5</b>
Freeboard at mast at 4.300		<b>1.160</b>



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

<b>PROPELLER</b>		
Installation <b>Shaft exposed</b>	PRD <b>0.436</b>	
Type <b>Feathering 2 blades</b>	PBW <b>0.107</b>	
Twin Screw <b>No</b>	PIPA <b>0.0049</b>	
PSA <b>20.100</b>	PHL <b>0.125</b> ST3 <b>0.100</b> ESL <b>0.990</b>	
PSD <b>0.035</b>	ST1 <b>0.029</b> ST4 <b>0.058</b>	
PHD <b>0.052</b>	ST2 <b>0.100</b> ST5 <b>0.280</b>	

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<b>COMMENTS</b>	
BULB KEEL	

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

<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>						
<b>Mainsail</b>	<b>MHB</b>	<b>MUW</b>	<b>MTW</b>	<b>MHW</b>	<b>MQW</b>	<b>Area Area (r) Formula</b>
	0.16	0.95	1.69	2.90	3.82	35.89 36.55 P/8 · (E + 2 · MQW + 2 · MHW + 1.5 · MTW + MUW + 0.5 · MHB)
<b>Symmetric</b>	<b>SLU</b>	<b>SLE</b>	<b>SL</b>	<b>SHW</b>	<b>SFL</b>	
	14.33	14.33	14.33	7.77	7.50	92.14 SL · (SFL + 4 · SHW) / 6
<b>Asymmetric</b>						
Not Available						

<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>Flying</b>	<b>Meas.Date</b>	<b>Material</b>	<b>Comment</b>
0.07	0.68	1.36	2.75	4.22	5.74	13.77	38.71	No	18/09/2019	Polyest		
0.06	0.64	1.24	2.55	3.98	5.55	14.05	37.32	No	20/10/2016	Polyest		
0.09	0.72	1.36	2.45	3.38	4.47	14.21	33.45	No	10/01/2013	Kevlar		

<b>MEASUREMENT INVENTORY</b>				
Measurer				
Date <b>10/03/2001</b>				
Comment				
<b>Internal Ballast total = 0.0</b>				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
4	Anchor	40.0	9.00	Danforth
4	Chain	3.0	9.00	
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		
4	Deck-Gear	20.0		

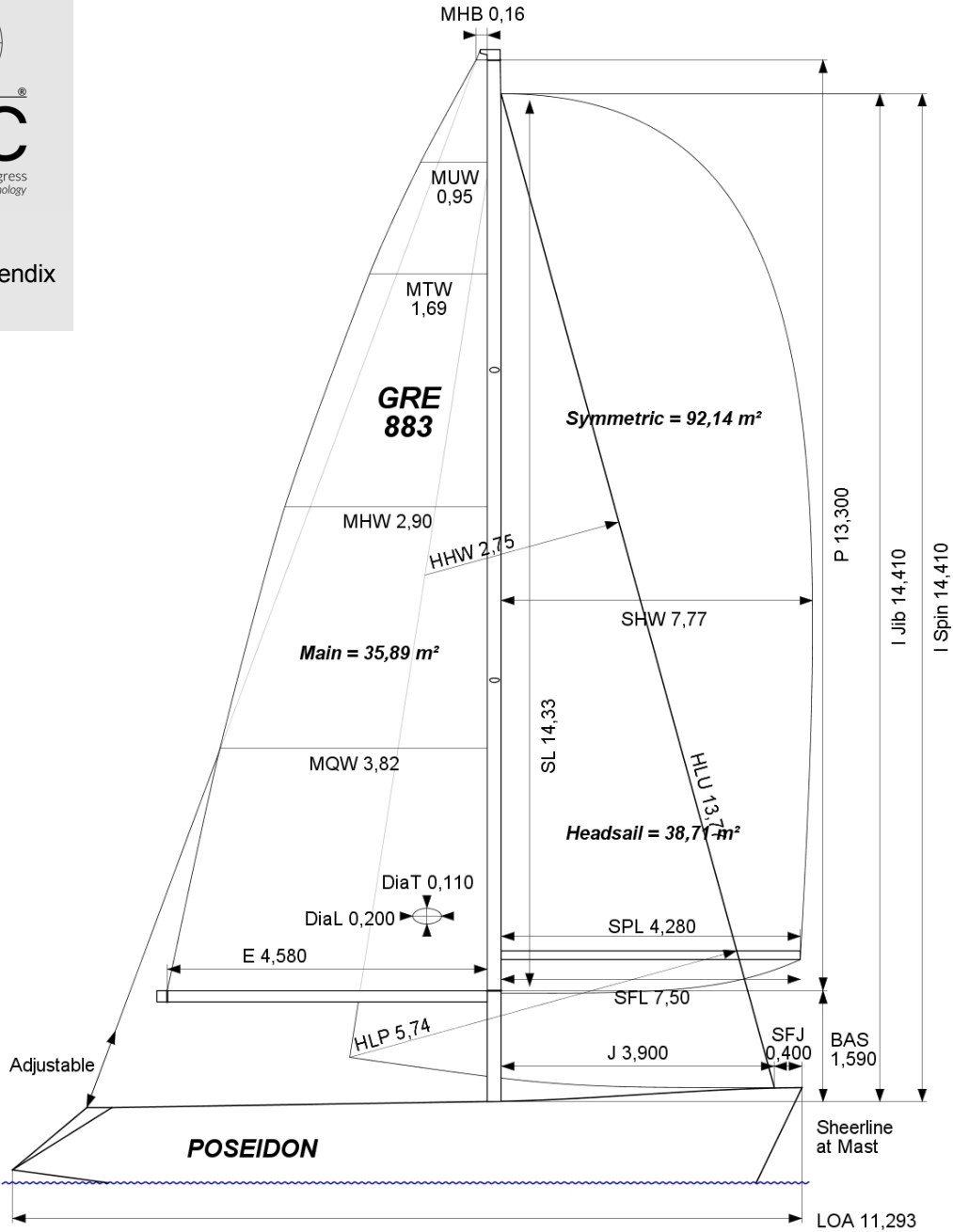
<b>MEASUREMENT INVENTORY</b>							
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG</b>	<b>Condtn Description</b>
1	Tank	Water	Plastic	180.0	5.00		
2	Tank	Water	Plastic	180.0	5.00		
3	Tank	Fuel	Inox	110.0	2.00		
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>			
1	Battery	40.0	7.00	2 x 80Ah			
2	Battery	30.0	9.00	110Ah			



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Sail Plan



**SAILS INVENTORY**

**MAINSAIL (2)**

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.16	0.95	1.69	2.90	3.82	35.89		09/08/2019	QUANTUM	Polyester	
4	0.13	0.81	1.51	2.72	3.65	34.02		27/02/2019		Dacron	

**HEADSAILS (3)**

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
7	0.07	0.68	1.36	2.75	4.22	5.74	13.77	147%	38.71	No			18/09/2019	QUANTUM	Polyest	
6	0.06	0.64	1.24	2.55	3.98	5.55	14.05	142%	37.32	No			20/10/2016	QUANTUM	Polyest	
4	0.09	0.72	1.36	2.45	3.38	4.47	14.21	115%	33.45	No			10/01/2013	QUANTUM	Kevlar	

**SYMMETRIC SPINNAKERS (3)**

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
5	14.33	14.32	14.33	7.77	7.50	92.11		12/03/2016	QUANTUM	Nylon	
2	14.13	14.13	14.13	7.57	7.20	88.27		04/03/2009	QUANTUM	Nylon	
6	14.30	14.30	14.30	7.15	7.10	85.09		27/03/2017	QUANTUM	Nylon	

**ASYMMETRIC SPINNAKERS (0)**

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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