

<b>BOAT</b> Name <b>BULLET-ENCODE</b> Sail Nr <b>GRE-76R</b>	<b>GPH</b> <b>457.0</b>	<b>HULL</b> Length Overall <b>15.850m</b> Maximum Beam <b>4.296m</b> Displacement <b>7,425kg</b> Draft <b>3.202m</b> IMS Reg. Division <b>Performance</b> Dynamic Allowance <b>0.001%</b> Fwd Accommodation <b>No</b> Hull Construction <b>Carbon</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>TP 52</b> Designer <b>JAUDENES-THEYS</b> Builder <b>RICHARD FAULKNER</b> Series <b>01/2006</b> Age <b>01/2006</b> Age Allowance <b>0.422%</b> Offset File <b>TP5276R-A.off - 14/07/2015 12:23:12</b> Measurement by - <b>10/06/2011</b>		IMSL <b>15.230m</b> VCGD <b>-0.870m</b> Sink <b>32.03kg/mm</b> RL <b>14.332m</b> VCGM <b>-0.865m</b> WS <b>41.41m<sup>2</sup></b> LSM0 <b>14.929m</b> Displacement/Length ratio <b>2.2315</b>



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<b>SCORING OPTIONS</b>						
	<b>COASTAL / LONG DISTANCE</b>			<b>WINDWARD / LEEWARD</b>		
Time on Distance	<b>445.4</b>			<b>504.8</b>		
Time on Time	<b>1.3470</b>			<b>1.3372</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>521.4</b>	<b>407.2</b>	<b>351.6</b>	<b>679.8</b>	<b>512.0</b>	<b>434.4</b>
Time on Time	<b>1.2947</b>	<b>1.6576</b>	<b>1.9198</b>	<b>0.9930</b>	<b>1.3183</b>	<b>1.5540</b>

<b>TIME ALLOWANCES</b>							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>765.3</b>	<b>627.0</b>	<b>579.5</b>	<b>557.8</b>	<b>539.6</b>	<b>527.1</b>	<b>524.2</b>
52°	<b>493.2</b>	<b>415.4</b>	<b>395.5</b>	<b>386.4</b>	<b>380.2</b>	<b>370.7</b>	<b>364.8</b>
60°	<b>460.0</b>	<b>397.8</b>	<b>380.6</b>	<b>370.6</b>	<b>363.5</b>	<b>353.5</b>	<b>342.7</b>
75°	<b>435.1</b>	<b>384.9</b>	<b>358.8</b>	<b>343.6</b>	<b>334.0</b>	<b>327.8</b>	<b>309.8</b>
90°	<b>438.3</b>	<b>386.6</b>	<b>353.3</b>	<b>326.4</b>	<b>311.9</b>	<b>302.2</b>	<b>289.6</b>
110°	<b>464.6</b>	<b>389.8</b>	<b>361.3</b>	<b>337.0</b>	<b>315.6</b>	<b>288.3</b>	<b>253.7</b>
120°	<b>479.6</b>	<b>393.9</b>	<b>353.4</b>	<b>329.5</b>	<b>310.0</b>	<b>286.9</b>	<b>252.6</b>
135°	<b>538.4</b>	<b>419.6</b>	<b>374.2</b>	<b>333.8</b>	<b>297.3</b>	<b>272.1</b>	<b>238.0</b>
150°	<b>648.3</b>	<b>500.7</b>	<b>423.7</b>	<b>376.8</b>	<b>346.5</b>	<b>309.1</b>	<b>244.3</b>
Run VMG	<b>748.5</b>	<b>578.2</b>	<b>489.2</b>	<b>439.5</b>	<b>400.2</b>	<b>356.9</b>	<b>282.1</b>

**Certificate**  
Number **01019P**  
ORC Ref **GRE01016319**  
Issued On **14/09/2019**  
VPP Ver. **2019 1.01**  
Valid until **28/02/2020**

**Crew Weight**  
Default **1,219kg**  
Maximum **1,185kg**  
Minimum\* **889kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

ToD	ToT
Non Spin GPH <b>493.6</b>	<b>1.2156</b>
Non Spin OSN <b>484.7</b>	<b>1.2380</b>

<b>Selected Courses</b>							
Windward / Leeward	<b>756.9</b>	<b>602.6</b>	<b>534.3</b>	<b>498.6</b>	<b>469.9</b>	<b>442.0</b>	<b>403.1</b>
Circular Random	<b>630.4</b>	<b>509.0</b>	<b>443.9</b>	<b>405.0</b>	<b>379.0</b>	<b>359.5</b>	<b>330.6</b>
Coastal / Long Distance	<b>756.1</b>	<b>566.0</b>	<b>479.6</b>	<b>427.4</b>	<b>393.8</b>	<b>360.9</b>	<b>311.8</b>
Non Spinnaker	<b>691.6</b>	<b>554.0</b>	<b>478.8</b>	<b>433.1</b>	<b>402.9</b>	<b>381.2</b>	<b>351.2</b>

**Sails Limitations**

Headsails	Spinnakers
<b>7</b>	<b>5</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>44.3°</b>	<b>42.1°</b>	<b>40.3°</b>	<b>39.2°</b>	<b>38.8°</b>	<b>38.1°</b>	<b>38.4°</b>
Beat VMG	<b>4.70</b>	<b>5.74</b>	<b>6.21</b>	<b>6.45</b>	<b>6.67</b>	<b>6.83</b>	<b>6.87</b>
52°	<b>7.30</b>	<b>8.67</b>	<b>9.10</b>	<b>9.32</b>	<b>9.47</b>	<b>9.71</b>	<b>9.87</b>
60°	<b>7.83</b>	<b>9.05</b>	<b>9.46</b>	<b>9.71</b>	<b>9.90</b>	<b>10.19</b>	<b>10.50</b>
75°	<b>8.27</b>	<b>9.35</b>	<b>10.03</b>	<b>10.48</b>	<b>10.78</b>	<b>10.98</b>	<b>11.62</b>
90°	<b>8.21</b>	<b>9.31</b>	<b>10.19</b>	<b>11.03</b>	<b>11.54</b>	<b>11.91</b>	<b>12.43</b>
110°	<b>7.75</b>	<b>9.24</b>	<b>9.97</b>	<b>10.68</b>	<b>11.41</b>	<b>12.49</b>	<b>14.19</b>
120°	<b>7.51</b>	<b>9.14</b>	<b>10.19</b>	<b>10.92</b>	<b>11.61</b>	<b>12.55</b>	<b>14.25</b>
135°	<b>6.69</b>	<b>8.58</b>	<b>9.62</b>	<b>10.78</b>	<b>12.11</b>	<b>13.23</b>	<b>15.13</b>
150°	<b>5.55</b>	<b>7.19</b>	<b>8.50</b>	<b>9.55</b>	<b>10.39</b>	<b>11.65</b>	<b>14.74</b>
Run VMG	<b>4.81</b>	<b>6.23</b>	<b>7.36</b>	<b>8.19</b>	<b>9.00</b>	<b>10.09</b>	<b>12.76</b>
Gybe Angles	<b>141.0°</b>	<b>140.2°</b>	<b>146.0°</b>	<b>151.8°</b>	<b>148.5°</b>	<b>143.5°</b>	<b>144.6°</b>

**Class Division Length**  
CDL = **14.782**

**Storm Sails Areas**  
Heavy Weather Jib **52.69**  
Storm Jib (JL=12.85) **19.52**  
Storm Trysail **25.02**

**Owner**

<b>BOAT</b>			
Name	<b>BULLET-ENCODE</b>	Sail Nr	<b>GRE-76R</b>
File	<b>TP5276R</b>	Data in	<b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>			
Inclining Test <b>Current Inclining</b>			
Flotation date		<b>06/07/2015</b>	SG <b>1.0240</b>
FFM	<b>1.537</b>	FF	<b>1.537</b> SFFP <b>0.900</b>
FAM	<b>1.196</b>	FA	<b>1.197</b> SAFF <b>15.849</b>
W1	<b>112.5</b>	PD1	<b>441.0</b> WD <b>18.670</b>
W2	<b>112.5</b>	PD2	<b>441.7</b> GSA <b>1.0</b>
W3	<b>112.5</b>	PD3	<b>440.9</b> RSA <b>1.0</b>
W4	<b>112.5</b>	PD4	<b>441.4</b> PLM <b>9000.0</b>
LCF from stem on CL / on sheer		<b>8.630 / 8.865</b>	
Maximum beam station from stem		<b>10.900</b>	
RM Measured		<b>374.9kg-m</b>	
RM Default		<b>347.3kg-m</b>	
Limit of positive stability / Stab.Index		<b>141.5° / 141.2</b>	
Freeboard at mast at 6.565		<b>1.331</b>	



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<b>RIG</b>			
Forestay Tension	<b>Aft &amp; Forward</b>	Spreaders	<b>2</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>No</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>20.050</b>	E	<b>7.130</b> MDT1 <b>0.157</b> MW <b>0.320</b>
IG	<b>19.703</b>	J	<b>6.165</b> MDL1 <b>0.320</b> GO <b>0.336</b>
ISP	<b>22.408</b>	SFJ	<b>0.400</b> MDT2 <b>0.118</b> BD <b>0.355</b>
BAS	<b>1.983</b>	SPL	<b>0.195</b> MWT <b>297.90</b>
FSP	<b>0.072</b>	TPS	<b>8.595</b> TL <b>2.650</b> MCG <b>7.230</b>

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

<b>PROPELLER</b>			
Installation	<b>Strut</b>	PRD	<b>0.450</b>
Type	<b>Folding 2 blades</b>	PBW	<b>0.115</b>
Twin Screw	<b>No</b>	PIPA	<b>0.0037</b>
ST1	<b>0.047</b>	ST3	<b>0.176</b> ST5 <b>0.265</b>
ST2	<b>0.176</b>	ST4	<b>0.111</b> EDL <b>1.955</b>

<b>COMMENTS</b>	
ex "JOHN MERRICKS II", ex "STEVE WONDER"	

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



<b>CENTERBOARD</b>	
<b>N/A</b>	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	1.240	2.19	3.21	4.75	6.03	91.04	93.44	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric Not Available									
Asymmetric on centerline	SLU	SLE	SL	SHW	SFL				
	25.00	21.46	23.23	13.64	13.72	264.36		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>
0.18	1.01	1.78	3.21	4.64	6.18	20.08	64.15	Y		24/04/2019	Carbon	L-1-15
0.04					5.52	17.45	48.48	Y		28/05/2008	Polyest	SS1

<b>MEASUREMENT INVENTORY</b>				
Measurer	<b>GRE-21</b>			
Date	<b>06/07/2015</b>			
Comment				
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>
<b>Id</b>	<b>Item</b>	<b>Maker</b>	<b>Model</b>	
1	Engine	Yanmar	4JH1E	
<b>Id</b>	<b>Item</b>	<b>Weight Description</b>		

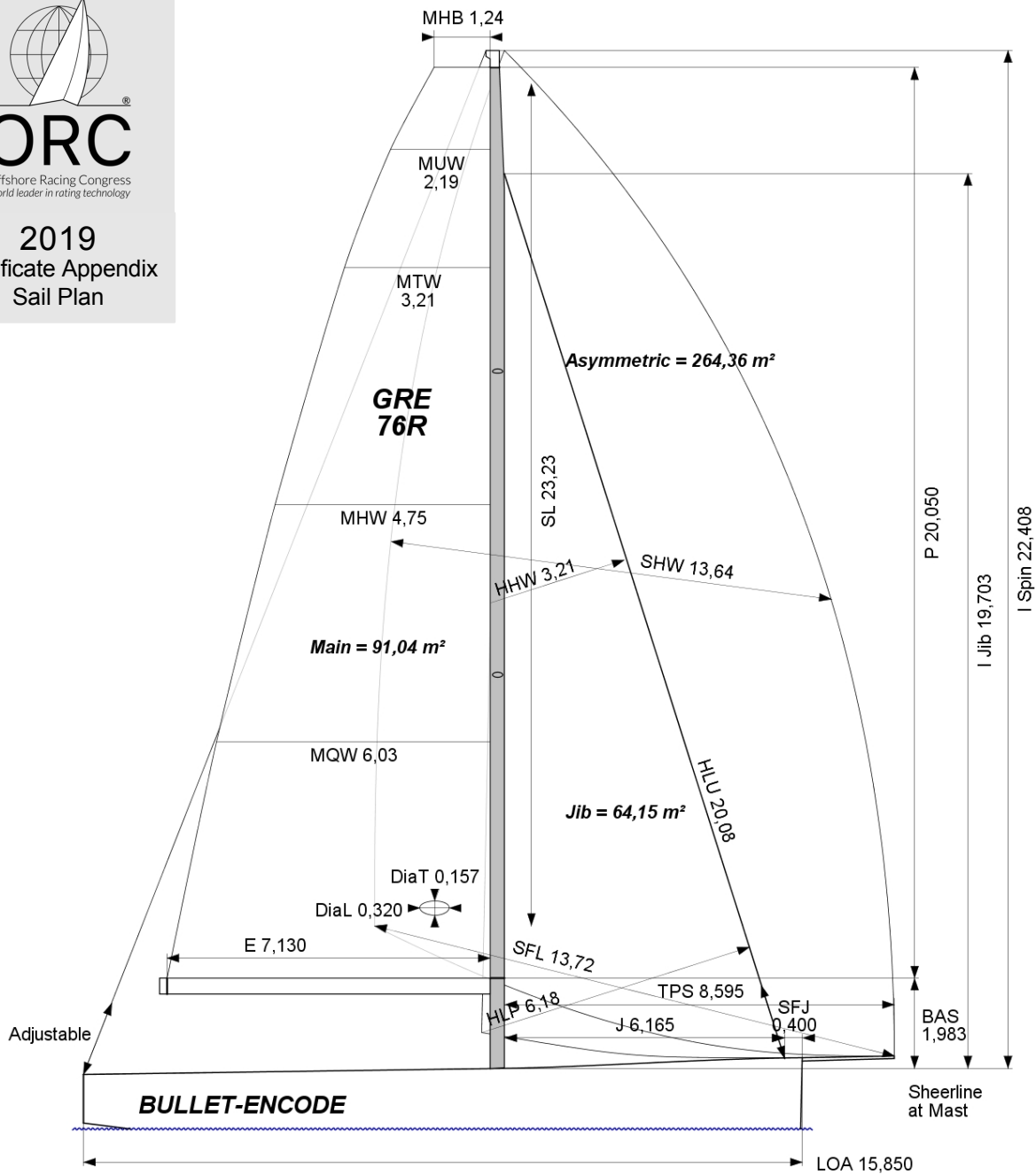
<b>MEASUREMENT INVENTORY</b>							
<b>Id</b>	<b>Item</b>	<b>Tank Use</b>	<b>Tank Type</b>	<b>Capcty</b>	<b>Dist.</b>	<b>VCG</b>	<b>Condtn Description</b>
2	Tank	WATER	PVC soft (bag)	80.0	6.20	0.30	0-0
1	Tank	FUEL	PVC hard	90.0	12.00	0.00	10-0
<b>Id</b>	<b>Item</b>	<b>Weight</b>	<b>Distance</b>	<b>VCG Description</b>			
1	Ballast	58.1	7.20	P=14.6+15.5    S=13.2+14.8			
2	Ballast	124.6	7.50	P: 20.1+20.9+20.5    S: 21.6+20.0+21.5			
3	Ballast	25.7	7.70	P: 12.6    S: 13.1			
2	Battery	25.0	10.00	0.00	1x36Ah		
1	Battery	90.0	10.80	-0.10	3x110Ah		



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Sail Plan



**SAILS INVENTORY**

MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
4	1.24	2.19	3.21	4.75	6.03	91.02		05/05/2017	NORTH	Carbon	3Di GLADIATOR					
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
5	0.18	1.01	1.78	3.21	4.64	6.18	20.08	100%	64.15	Y			24/04/2019	NORTH	Carbon	L-1-15
SS1	0.04					5.52	17.45	90%	48.48		Y		28/05/2008	NORTH	Polyest	SS1
SYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
ASYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				
5	25.00	21.46	23.23	13.64	13.72	264.36	asym		24/04/2017	NORTH	Nylon	A2-1-14 GLADIATOR				