

<b>BOAT</b> Name <b>ARISTOTELIS</b> Sail Nr <b>GRE-155</b>	<b>GPH</b> <b>569.7</b>	<b>HULL</b> Length Overall <b>12.400m</b> Maximum Beam <b>3.486m</b> Displacement <b>6,151kg</b> Draft <b>2.486m</b> IMS Reg. Division <b>Cruiser/Racer</b> Dynamic Allowance <b>0.000%</b> Fwd Accommodation <b>Yes</b> Hull Construction <b>Solid</b> Carbon Rudder <b>Yes</b> Crew Arm Extension
<b>GENERAL</b> Class <b>RODMAN 42</b> Designer <b>JUDEL/VROELIJK</b> Builder <b>RODMAN</b> Series <b>06/2002</b> Age <b>06/2002</b> Age Allowance <b>0.487%</b> Offset File <b>ITA155.OFF - 26/06/2007 20:39:50</b> Measurement by - <b>19/08/2008</b>		IMSL <b>10.839m</b> VCGD <b>-0.228m</b> Sink <b>21.76kg/mm</b> RL <b>10.385m</b> VCGM <b>-0.203m</b> WS <b>28.94m<sup>2</sup></b> LSM0 <b>10.519m</b> Displacement/Length ratio <b>5.2847</b>



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SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	<b>554.1</b>			<b>620.7</b>		
Time on Time	<b>1.0828</b>			<b>1.0875</b>		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	<b>651.9</b>	<b>505.1</b>	<b>449.0</b>	<b>844.2</b>	<b>623.4</b>	<b>542.3</b>
Time on Time	<b>1.0355</b>	<b>1.3364</b>	<b>1.5034</b>	<b>0.7996</b>	<b>1.0827</b>	<b>1.2448</b>

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	<b>938.2</b>	<b>770.2</b>	<b>683.9</b>	<b>655.3</b>	<b>643.1</b>	<b>633.9</b>	<b>625.2</b>
52°	<b>617.5</b>	<b>516.1</b>	<b>475.1</b>	<b>462.7</b>	<b>457.4</b>	<b>454.7</b>	<b>446.7</b>
60°	<b>584.3</b>	<b>496.6</b>	<b>463.3</b>	<b>449.7</b>	<b>443.6</b>	<b>440.2</b>	<b>430.9</b>
75°	<b>558.7</b>	<b>484.2</b>	<b>454.7</b>	<b>435.4</b>	<b>422.4</b>	<b>415.6</b>	<b>409.4</b>
90°	<b>562.8</b>	<b>484.7</b>	<b>451.4</b>	<b>432.0</b>	<b>411.7</b>	<b>395.5</b>	<b>378.9</b>
110°	<b>583.3</b>	<b>484.5</b>	<b>445.9</b>	<b>418.1</b>	<b>397.7</b>	<b>384.3</b>	<b>363.0</b>
120°	<b>603.6</b>	<b>496.0</b>	<b>452.8</b>	<b>423.6</b>	<b>395.7</b>	<b>370.3</b>	<b>342.4</b>
135°	<b>674.7</b>	<b>544.9</b>	<b>477.2</b>	<b>445.4</b>	<b>418.1</b>	<b>392.0</b>	<b>338.5</b>
150°	<b>804.2</b>	<b>640.4</b>	<b>538.9</b>	<b>478.4</b>	<b>448.1</b>	<b>422.6</b>	<b>374.0</b>
Run VMG	<b>928.6</b>	<b>739.5</b>	<b>622.3</b>	<b>546.6</b>	<b>497.1</b>	<b>460.9</b>	<b>411.9</b>

**Certificate**

Number **000031**  
ORC Ref **GRE01015460**  
Issued On **19/04/2019**  
VPP Ver. **2019 1.01**  
Valid until **28/02/2020**

**Crew Weight**

Default **740kg**  
Maximum **820kg**  
Minimum\* **615kg**  
*\*when applied by the NoR and SI*  
Non Manual Pwr **No**

**Special Scoring**

	ToD	ToT
Non Spin GPH	<b>597.0</b>	<b>1.0050</b>
Non Spin OSN	<b>580.8</b>	<b>1.0330</b>

Selected Courses							
Windward / Leeward	<b>933.4</b>	<b>754.8</b>	<b>653.1</b>	<b>600.9</b>	<b>570.1</b>	<b>547.4</b>	<b>518.6</b>
Circular Random	<b>783.8</b>	<b>633.1</b>	<b>552.7</b>	<b>506.2</b>	<b>477.3</b>	<b>457.6</b>	<b>431.1</b>
Coastal / Long Distance	<b>932.9</b>	<b>709.8</b>	<b>589.9</b>	<b>524.5</b>	<b>488.4</b>	<b>457.7</b>	<b>410.2</b>
Non Spinnaker	<b>832.7</b>	<b>667.8</b>	<b>578.6</b>	<b>526.3</b>	<b>493.6</b>	<b>471.7</b>	<b>442.5</b>

**Sails Limitations**

Headsails	Spinnakers
<b>6</b>	<b>4</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>42.5°</b>	<b>41.3°</b>	<b>39.5°</b>	<b>38.9°</b>	<b>38.2°</b>	<b>37.8°</b>	<b>38.1°</b>
Beat VMG	<b>3.84</b>	<b>4.67</b>	<b>5.26</b>	<b>5.49</b>	<b>5.60</b>	<b>5.68</b>	<b>5.76</b>
52°	<b>5.83</b>	<b>6.98</b>	<b>7.58</b>	<b>7.78</b>	<b>7.87</b>	<b>7.92</b>	<b>8.06</b>
60°	<b>6.16</b>	<b>7.25</b>	<b>7.77</b>	<b>8.00</b>	<b>8.12</b>	<b>8.18</b>	<b>8.35</b>
75°	<b>6.44</b>	<b>7.43</b>	<b>7.92</b>	<b>8.27</b>	<b>8.52</b>	<b>8.66</b>	<b>8.79</b>
90°	<b>6.40</b>	<b>7.43</b>	<b>7.97</b>	<b>8.33</b>	<b>8.74</b>	<b>9.10</b>	<b>9.50</b>
110°	<b>6.17</b>	<b>7.43</b>	<b>8.07</b>	<b>8.61</b>	<b>9.05</b>	<b>9.37</b>	<b>9.92</b>
120°	<b>5.96</b>	<b>7.26</b>	<b>7.95</b>	<b>8.50</b>	<b>9.10</b>	<b>9.72</b>	<b>10.51</b>
135°	<b>5.34</b>	<b>6.61</b>	<b>7.54</b>	<b>8.08</b>	<b>8.61</b>	<b>9.18</b>	<b>10.63</b>
150°	<b>4.48</b>	<b>5.62</b>	<b>6.68</b>	<b>7.52</b>	<b>8.03</b>	<b>8.52</b>	<b>9.62</b>
Run VMG	<b>3.88</b>	<b>4.87</b>	<b>5.79</b>	<b>6.59</b>	<b>7.24</b>	<b>7.81</b>	<b>8.74</b>
Gybe Angles	<b>142.3°</b>	<b>147.0°</b>	<b>149.8°</b>	<b>155.6°</b>	<b>169.3°</b>	<b>180.0°</b>	<b>180.0°</b>

**Class Division Length**

CDL = **10.613**

**Storm Sails Areas**

Heavy Weather Jib **33.03**  
Storm Jib (JL=10.17) **12.24**  
Storm Trysail **16.79**

**Owner**

<b>BOAT</b>	
Name <b>ARISTOTELIS</b>	Sail Nr <b>GRE-155</b>
File <b>ITA155</b>	Data in <b>meters/kilograms</b>

<b>INCLINING TEST AND FREEBOARDS</b>					
Inclining Test <b>Current Inclining</b>					
Flotation date <b>29/07/2008</b>				SG <b>1.0020</b>	
FFM	<b>1.390</b>	FF	<b>1.397</b>	SFFP	<b>0.160</b>
FAM	<b>1.132</b>	FA	<b>1.144</b>	SAFP	<b>12.030</b>
W1	<b>108.0</b>	PD1	<b>543.6</b>	WD	<b>12.000</b>
W2	<b>108.0</b>	PD2	<b>533.8</b>	GSA	<b>1.0</b>
W3	<b>108.0</b>	PD3	<b>541.0</b>	RSA	<b>1.0</b>
W4	<b>108.0</b>	PD4	<b>535.9</b>	PLM	<b>9000.0</b>
LCF from stem on CL / on sheer				<b>6.724 / 6.928</b>	
Maximum beam station from stem				<b>8.030</b>	
RM Measured				<b>189.5kg-m</b>	
RM Default				<b>180.9kg-m</b>	
Limit of positive stability / Stab.Index				<b>129.7° / 132.8</b>	
Freeboard at mast at 4.757				<b>1.227</b>	



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<b>RIG</b>					
Forestay Tension	<b>Aft</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>16.310</b>	E	<b>5.880</b>	MDT1	<b>0.122</b>
IG	<b>15.570</b>	J	<b>4.455</b>	MDL1	<b>0.244</b>
ISP	<b>15.670</b>	SFJ	<b>0.302</b>	MDT2	<b>0.079</b>
BAS	<b>1.700</b>	SPL	<b>4.436</b>	MDL2	<b>0.178</b>
FSP	<b>0.072</b>	TPS	<b>0.000</b>	TL	<b>3.100</b>
		MW	<b>0.244</b>	GO	<b>0.264</b>
		BD	<b>0.293</b>	MWT	<b>214.00</b>
		MCG	<b>6.080</b>		

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

<b>PROPELLER</b>			
Installation	<b>Strut</b>	PRD	<b>0.412</b>
Type	<b>Feathering 2 blades</b>	PBW	
Twin Screw	<b>No</b>	PIPA	<b>0.0036</b>
ST1	<b>0.042</b>	ST3	<b>0.180</b>
ST2	<b>0.180</b>	ST4	<b>0.112</b>
		ST5	<b>0.311</b>
		EDL	<b>1.020</b>

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<b>COMMENTS</b>	
ex "BOOKER", ex "NAUTILUS MARINE" (ITA-155)	

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



**Invalid for racing**  
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<b>CENTERBOARD</b>	
N/A	

<b>SAILS (Maximum Areas)</b>									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.210	1.26	2.22	3.81	4.96	57.32	58.58	P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	103.32		SL · (SFL + 4·SHW) / 6	
	15.49	15.49	15.49	8.08	7.70				
Asymmetric	Not Available								

<b>HEADSAILS</b>												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HBB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.10	0.70	1.31	2.44	3.55	4.66	15.45	37.25	Y		22/06/2016	Carbon	J2
0.09	0.67	1.27	2.46	3.56	4.63	15.27	36.68	Y		25/06/2016	Carbon	J1
0.09	0.62	1.17	2.30	3.44	4.54	15.50	35.68	Y		06/06/2013	Carbon	
0.08	0.60	1.14	2.22	3.38	4.51	15.56	35.13	N		01/08/2008	Kevlar	#3.1
					4.09	15.52	32.31	N		23/09/2003	Kevlar	#4

<b>MEASUREMENT INVENTORY</b>				
Measurer <b>124</b>				
Date <b>29/08/2008</b>				
Comment				
Id	Item	Weight	Distance	VCG Description
A	Anchor	33.0	8.45	Anchor+Chain
A	Tools	10.0	9.00	
Id	Item	Maker	Model	
A	Engine	YANMAR	40 HP	
Id	Item	Weight	Description	
A	Deck-Gear	16.0		

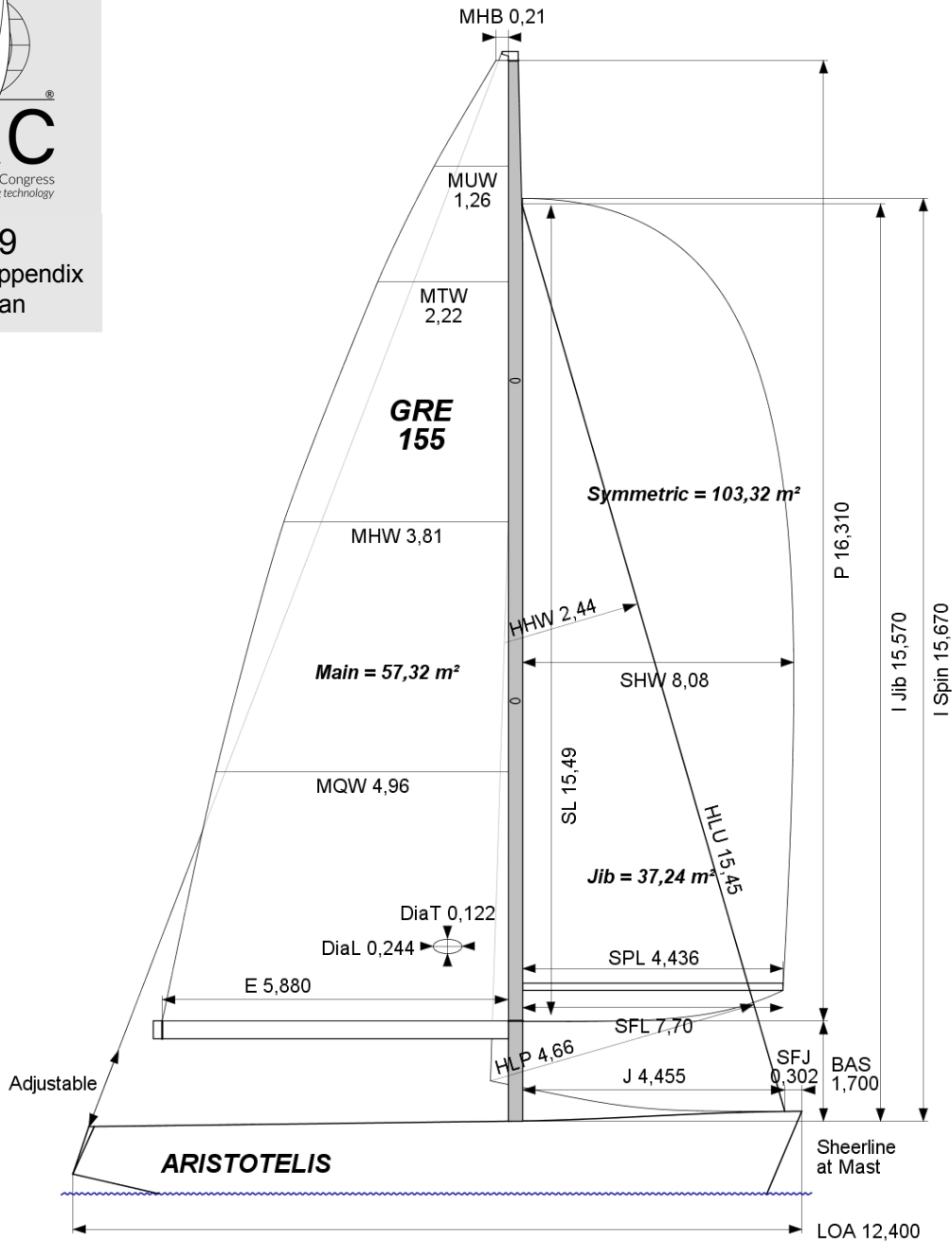
<b>MEASUREMENT INVENTORY</b>							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
A	Tank	FUEL	ALLOY	80.0	8.75		10.0 Liters
B	Tank	H2O	PVC	130.0	0.55		0.0 Empty
Id	Item	Weight	Distance	VCG Description			
A	Battery		7.55	DA 75 AH			



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Sail Plan



**SAILS INVENTORY**

MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0.21	1.26	2.22	3.81	4.96	57.32		22/07/2014	NorthSails	Kevlar						
1	0.22	1.26	2.20	3.77	4.91	56.91		13/04/2010	Quantum	Pentex	2010					
HEADSAILS (5)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.10	0.70	1.31	2.44	3.55	4.66	15.45	105%	37.25	Y			22/06/2016	Quantum	Carbon	J2
1	0.09	0.67	1.27	2.46	3.56	4.63	15.27	104%	36.68	Y			25/06/2016	Quantum	Carbon	J1
8	0.09	0.62	1.17	2.30	3.44	4.54	15.50	102%	35.68	Y			06/06/2013	Quantum	Carbon	
4	0.08	0.60	1.14	2.22	3.38	4.51	15.56	101%	35.13	N			01/08/2008		Kevlar	#3.1
5						4.09	15.52	92%	32.31	N			23/09/2003		Kevlar	#4
SYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
5	15.49	15.49	15.49	8.08	7.70	103.32		25/06/2012	Quantum	Nylon	0.5 red					
2	15.36	15.36	15.36	8.05	8.01	102.94		13/04/2010	Eurosails	Nylon	red heavy					
3	15.43	15.43	15.43	7.79	7.81	100.22		13/04/2010	North Sails	Nylon	white VMG					
4	15.33	15.33	15.33	7.81	7.97	100.19		26/07/2011	NorthSails	Nylon	S-3 0.9					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				