

BOAT Name ARISTOTELIS Sail Nr GRE-155	GPH 570.5	HULL Length Overall 12.400m Maximum Beam 3.486m Displacement 6,151kg Draft 2.486m Plan Review IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.000% Hull Construction Solid Carbon Rudder Yes Crew Arm Extension
GENERAL Class RODMAN 42 Designer JUDEL/VROELIJK Builder RODMAN Series 06/2002 Age 06/2002 Age Allowance 0.487% Offset File ITA155.OFF - 26/06/2007 20:39:50 Measurement by - 19/08/2008		IMSL 10.839m VCGD -0.228m Sink 21.76kg/mm RL 10.258m VCGM -0.203m WS 28.94m² LSM0 10.519m Displacement/Length ratio 5.2847



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	555.1			622.4		
Time on Time	1.0809			1.0844		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	652.4	505.8	450.1	845.2	625.1	544.6
Time on Time	1.0346	1.3344	1.4998	0.7986	1.0798	1.2394

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	941.5	772.9	687.4	659.3	647.9	638.8	630.9
52°	618.6	516.8	475.8	463.6	458.4	455.8	448.0
60°	584.9	496.8	463.6	450.3	444.4	441.1	431.7
75°	558.8	484.2	454.7	435.4	422.7	416.1	410.0
90°	562.7	484.6	451.5	431.7	411.3	395.3	379.3
110°	583.2	484.4	445.7	417.7	397.6	384.0	363.1
120°	603.2	495.8	452.5	423.2	395.1	369.9	342.3
135°	674.2	544.2	476.8	445.0	417.6	391.4	337.6
150°	803.5	640.0	538.3	478.0	447.7	422.1	373.3
Run VMG	927.8	739.0	621.6	546.1	496.7	460.5	411.4

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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	597.8	1.0037
Non Spin OSN	581.8	1.0313

Selected Courses							
Windward / Leeward	934.6	755.9	654.5	602.7	572.3	549.7	521.1
Circular Random	784.6	633.9	553.5	507.1	478.2	458.7	432.3
Coastal / Long Distance	933.9	710.6	590.8	525.6	489.5	458.6	410.9
Non Spinnaker	833.3	668.4	579.3	527.1	494.5	472.6	443.7

Sails Limitations

Headsails	Spinnakers
6	4

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	42.8°	41.3°	39.8°	39.0°	38.6°	38.3°	38.6°
Beat VMG	3.82	4.66	5.24	5.46	5.56	5.64	5.71
52°	5.82	6.97	7.57	7.77	7.85	7.90	8.04
60°	6.15	7.25	7.76	7.99	8.10	8.16	8.34
75°	6.44	7.43	7.92	8.27	8.52	8.65	8.78
90°	6.40	7.43	7.97	8.34	8.75	9.11	9.49
110°	6.17	7.43	8.08	8.62	9.05	9.37	9.92
120°	5.97	7.26	7.96	8.51	9.11	9.73	10.52
135°	5.34	6.62	7.55	8.09	8.62	9.20	10.66
150°	4.48	5.63	6.69	7.53	8.04	8.53	9.64
Run VMG	3.88	4.87	5.79	6.59	7.25	7.82	8.75
Gybe Angles	142.3°	147.0°	150.0°	155.8°	170.0°	180.0°	180.0°

Class Division Length
CDL = **10.539**

Storm Sails Areas

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

Owner

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

RIG	
Forestay Tension Aft	Spreaders 2
Inner Stay None Fitted	Runners/Checkstays 0
Carbon Mast Yes	Jib Furler No
Fiber Rigging No	Main Furler No
Non-Circular Rigging No	
Articulated Bowsprit No	
P 16.310	E 5.880 MDT1 0.122 MW 0.244
IG 15.570	J 4.455 MDL1 0.244 GO 0.264
ISP 15.670	SFJ 0.302 MDT2 0.079 BD 0.293
BAS 1.700	SPL 4.436 MDL2 0.178 MWT 214.00
FSD 0.036	TPS 0.000 TL 3.100 MCG 6.080

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



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MIZZEN RIG AND SAILS	
N/A	

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

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COMMENTS	
ex "BOOKER", ex "NAUTILUS MARINE" (ITA-155)	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.21	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				
	15.49	15.49	15.49	8.08	7.70	103.32		SL · (SFL + 4·SHW) / 6	
Asymmetric									
Not Available									

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Flying	Meas.Date	Material	Comment
0.10	0.70	1.31	2.44	3.55	4.66	15.45	37.25	Y	No	22/06/2016	Carbon	J2
0.09	0.67	1.27	2.46	3.56	4.63	15.27	36.68	Y	No	25/06/2016	Carbon	J1
0.09	0.62	1.17	2.30	3.44	4.54	15.50	35.68	Y	No	06/06/2013	Carbon	
0.08	0.60	1.14	2.22	3.38	4.51	15.56	35.13	N	No	01/08/2008	Kevlar	#3.1
					4.09	15.52	32.31	N	No	23/09/2003	Kevlar	#4

MEASUREMENT INVENTORY				
Measurer 124				
Date 29/08/2008				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
A	Anchor	33.0	8.45	Anchor+Chain
A	Tools	40.0	9.00	
Id	Item	Maker	Model	
A	Engine	YANMAR	40 HP	
Id	Item	Weight	Description	
A	Deck-Gear	46.0		

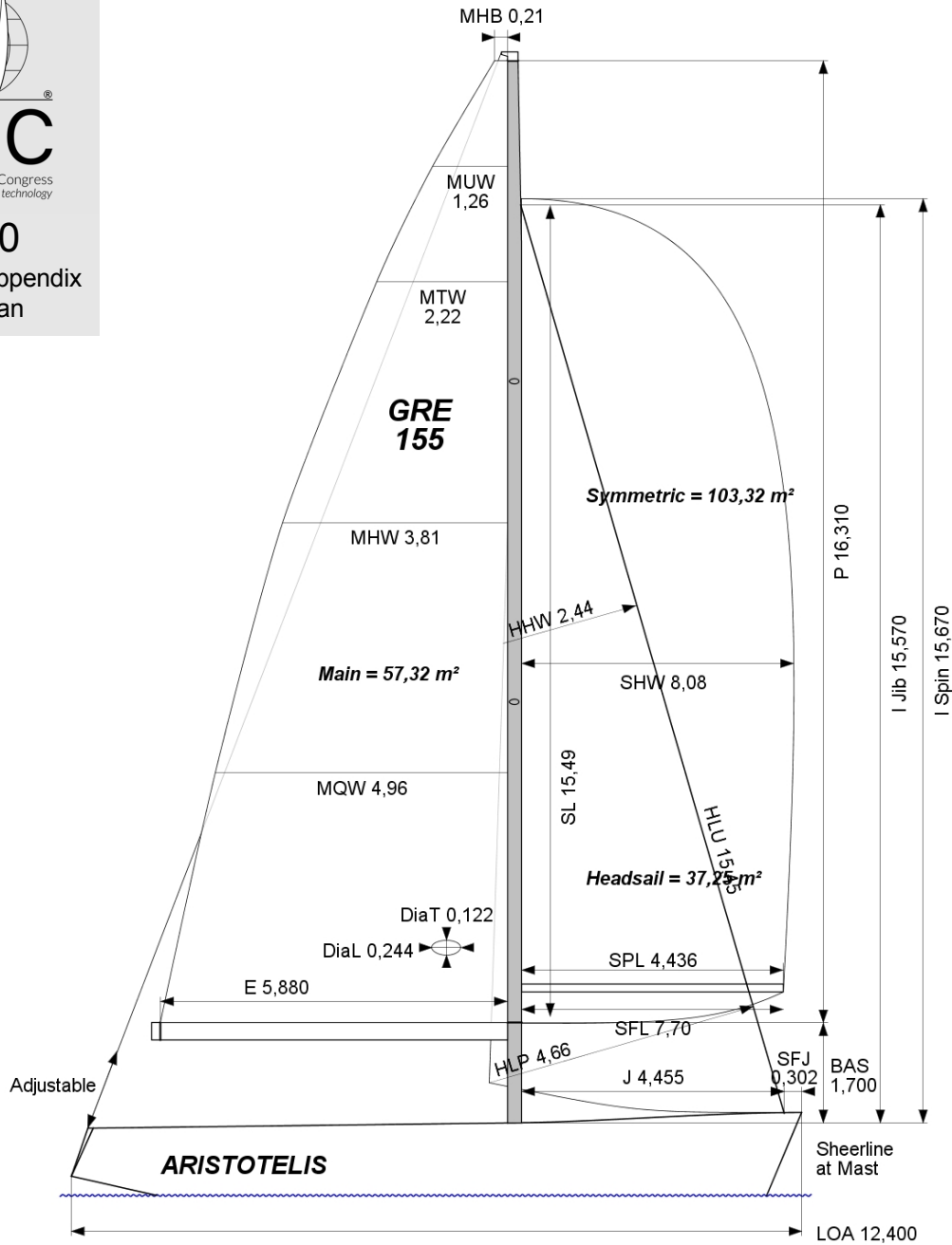
MEASUREMENT INVENTORY							
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn Description
A	Tank FUEL		ALLOY	80.0	8.75		40.0 Liters
B	Tank H2O		PVC	130.0	0.55		0.0 Empty
Id	Item	Weight	Distance	VCG Description			
A	Battery		7.55	DA 75 AH			



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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	Flying	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	No		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	No		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	No		06/06/2013	Quantum	Carbon	
4	0,08	0,60	1,14	2,22	3,38	4,51	15,56	101%	35,13	N	No		01/08/2008		Kevlar	#3.1
5						4,09	15,52	92%	32,31	N	No		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				