



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office
Hellenic Sailing Federation
Offshore Committee
Επιτροπή
Ανοικτής Θαλάσσης
Ελληνικής
Ιστιοπλοϊκής Ομοσπονδίας

Certificate
 Number **F00117**
 Issued On **16/3/2018**
 ORC Ref **GRE01009221**
 VPP Ver. **2018 1.00**
 Valid until **28/2/2019**

Crew Weight

Default	457kg
Maximum	320kg
Minimum*	235kg

*when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 778,7	0,7705
Non Spin OSN 753,0	0,7969

Sails Limitations

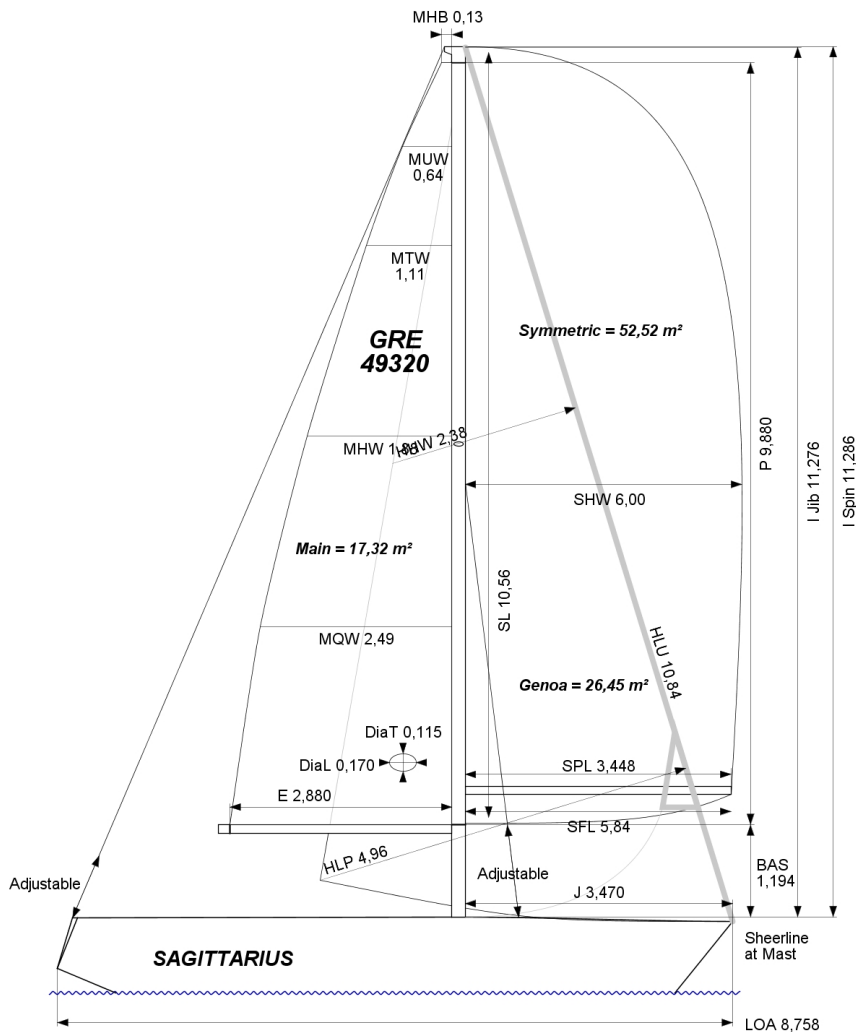
Headsails **1** Spinnakers **3**
Dacron Sails

Spinnaker configuration
 Symmetric: **Yes** **52,52**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **Yes**

Class Division Length
CDL = 6,563

Stability (Measured)
 Limit Positive Stab.: **119,4°**
 Stability Index: **122,2**

Owner




BOAT Name SAGITTARIUS Sail Nr GRE-49320		GPH 746,8	HULL Data File GR49320 LOA 8,758m Offset File E201.OFF MB 2,832m Displacement 3,858kg Draft 1,725m			
CLASS Class FIRST 30 Designer ANDRE MAURIC Builder BENETEAU Series 01/1973 Age Date 01/1979 Age Allowance 0,487%		IMS Division Cruiser/Racer Dynamic All. 0,585% Fwd Accom. Yes Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No				
COMMENTS IRON KEEL ex "APILIOTIS", ex "BIG FAMILY", ex "ATLANTIA"		IMSL 7,389m VCGD 0,030m Sink 11,48kg/mm RL 5,735m VCGM 0,040m WS 17,49m² LSM0 7,504m Displacement/Length ratio 9,1303				
PROPELLER Installation Shaft exposed PRD 0,381 Type Folding 2 blades PBW 0,099 PIPA 0,0043		CENTERBOARD N/A				
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	724,8			808,5		
Time on Time	0,8278			0,8348		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	854,5	660,9	598,0	1089,1	813,3	715,0
Time on Time	0,7899	1,0214	1,1287	0,6198	0,8300	0,9441

BOAT	
Name SAGITTARIUS	Sail Nr GRE-49320
File GR49320	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 03/05/2005		SG 1,0270	
FFM 0,931	FF 0,982	SFFP 0,490	
FAM 0,971	FA 0,939	SAFP 8,493	
W1 35,2	PD1 356,0	WD 9,540	
W2 35,2	PD2 356,0	GSA 28,3	
W3 35,2	PD3 356,0	RSA 5674,5	
W4 35,2	PD4 356,0	PLM 2370,0	
LCF from stem on CL / on sheer		4,691 / 4,844	
Maximum beam station from stem		4,882	
RM Measured		38,9kg·m	
RM Default		42,2kg·m	
Limit of positive stability / Stab.Index		119,4° / 122,2	
Freeboard at mast at 3,470		0,988	


RIG			
Forestay Tension Aft	Spreaders 1		
Inner Stay Adjustable	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler Yes		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 9,880	E 2,880	MDT1 0,115	MW 0,170
IG 11,276	J 3,470	MDL1 0,170	GO 0,200
ISP 11,286	SFJ 0,000	MDT2 0,115	BD 0,110
BAS 1,194	SPL 3,448	MDL2 0,170	MWT
FSP 0,054	TPS	TL 0,000	MCG



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2018 Measurements Datasheet

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,381		
Type Folding 2 blades	PBW 0,099		
Twin Screw No	PIPA 0,0043		
PSA 29,250	PHL 0,115	ST3 0,087	ESL 0,722
PSD 0,022	ST1 0,022	ST4 0,040	
PHD 0,046	ST2 0,087	ST5 0,280	

COMMENTS	
IRON KEEL ex "APILOTIS", ex "BIG FAMILY", ex "ATLANTIA"	

MOVABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	0,134	0,64	1,11	1,88	2,49	17,28		12/06/2003	KAKITSIS	Dacron						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0,12	0,61	1,17	2,38	3,67	4,96	10,84	143%	26,45				30/03/2013	KAKITSIS	Dacron	
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
2	10,56	10,56	10,56	6,00	5,84	52,52		03/05/2005		Nylon						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer GRE-11				
Date 03/05/2005				
Comment				
Id	Item	Weight	Distance	VCG Description
4	Anchor	7,5	0,80	GQR
4	Chain	54,0	0,80	8mm x 20m +
4	Tools	30,0	2,00	
Id	Item	Maker	Model	
1	Engine	Kubota	18HP	
Id	Item	Weight Description		

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn	Description
1	Tank	Fuel	Steel	28,0	8,00		0-0	
2	Tank	Water	Bladder	100,0	4,00		0-0	
Id	Item	Weight	Distance	VCG Description				
1	Battery	57,0	4,00	1x80Ah + 1x75Ah + 1x55Ah				



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ORC Club Certificate Appendix

BOAT			
Name	SAGITTARIUS	Certificate Number	F00117
Sail Nr	GRE-49320	Issued On	16/3/2018

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1243,6	1043,9	935,9	881,7	862,2	854,7	867,0
52°	828,4	703,9	631,3	602,2	591,0	586,5	586,5
60°	791,3	671,1	608,7	585,0	573,6	568,6	566,7
75°	764,6	647,4	593,1	570,7	557,0	547,2	538,9
90°	774,4	647,7	586,8	567,4	550,8	537,2	516,3
110°	769,1	634,0	576,2	550,3	530,5	518,3	501,9
120°	790,2	649,9	582,7	553,2	531,0	510,1	484,7
135°	862,0	707,4	611,3	569,9	545,3	522,6	481,4
150°	997,1	796,1	679,1	603,0	568,2	545,5	503,5
Run VMG	1151,4	917,3	780,7	683,8	614,3	575,6	531,6

Selected Courses							
Windward / Leeward	1197,5	980,6	858,3	782,7	738,2	715,1	699,3
Circular Random	1025,3	829,0	724,4	664,7	629,6	608,5	586,2
Coastal / Long Distance	1192,9	922,7	773,3	685,0	639,7	606,6	556,3
Non Spinnaker	1082,9	869,7	754,6	687,7	647,6	623,0	596,4

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	41,9°	40,2°	40,6°	41,2°	41,0°	41,1°	42,1°
Beat VMG	2,89	3,45	3,85	4,08	4,18	4,21	4,15
52°	4,35	5,11	5,70	5,98	6,09	6,14	6,14
60°	4,55	5,36	5,91	6,15	6,28	6,33	6,35
75°	4,71	5,56	6,07	6,31	6,46	6,58	6,68
90°	4,65	5,56	6,13	6,34	6,54	6,70	6,97
110°	4,68	5,68	6,25	6,54	6,79	6,95	7,17
120°	4,56	5,54	6,18	6,51	6,78	7,06	7,43
135°	4,18	5,09	5,89	6,32	6,60	6,89	7,48
150°	3,61	4,52	5,30	5,97	6,34	6,60	7,15
Run VMG	3,13	3,92	4,61	5,26	5,86	6,25	6,77
Gybe Angles	148,3°	152,5°	153,6°	159,8°	180,0°	180,0°	180,0°