



World Leader in Rating Technology

2017 ORC Club Certificate

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

Certificate
 Number **F00337**
 Issued On **16/4/2017**
 ORC Ref **GRE01007195**
 VPP Ver. **2017 1.00**
 Valid until **28/2/2018**

Crew Weight
 Declared **500kg**
 Default* **685kg**
 Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	701,7	0,8551
Non Spin OSN	680,1	0,8822

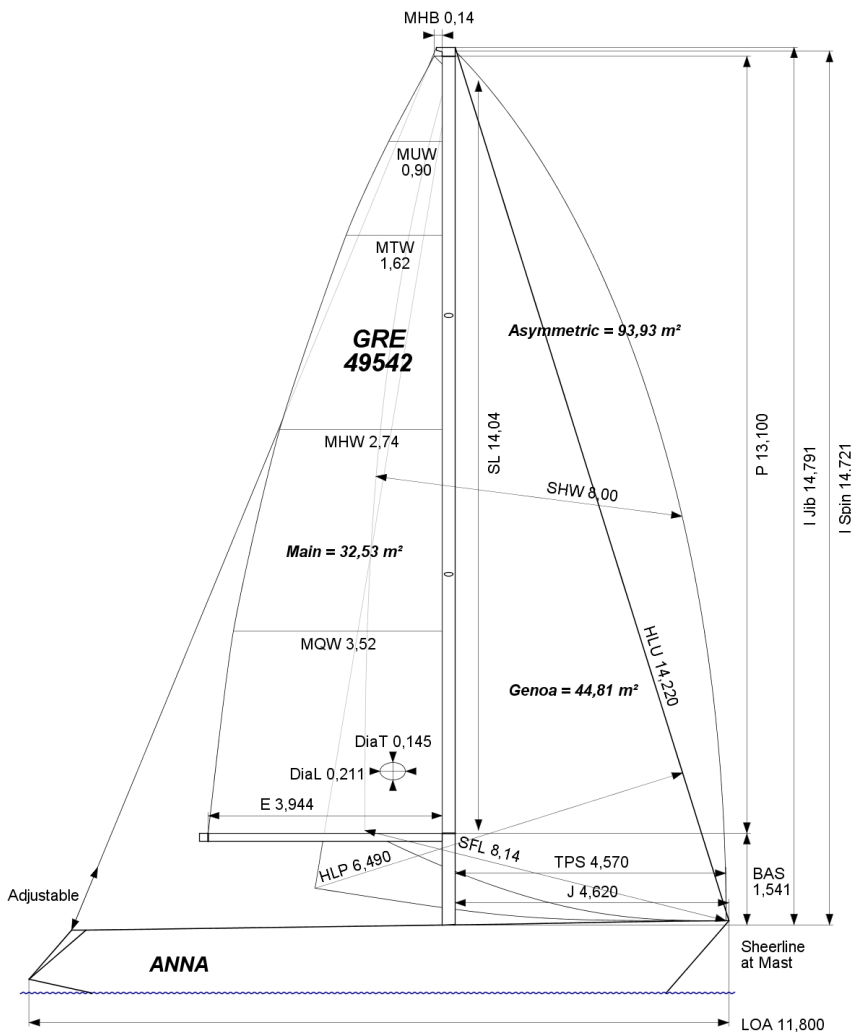
Sails Limitations
 Headsails **5** Spinnakers **3**

Spinnaker configuration
 Symmetric: **No**
 Asymmetric: **Yes** **93,93**
 Flying H/S: **No**
 Spin. Pole: **No**

Class Division Length
 CDL = **8,429**

Stability (Measured)
 Limit Positive Stab.: **114,5°**
 Stability Index: **118,8**

Owner



BOAT		GPH		HULL			
Name	ANNA	674,8	Data File	GR49542	LOA	11,800m	
Sail Nr	GRE-49542		Offset File	GR0093.BOF	MB	3,878m	
			Displacement	8,643kg	Draft	2,020m	
			IMS Division	Cruiser/Racer	Dynamic All.	0,570%	
			Fwd Accom.	Yes	Construction	Solid	
			Fiber Rigging	No	Aramid Core	No	
			Crew Arm Ex		Carbon Rudder	No	
					Light Stanchions	No	
			IMSL	9,766m	VCGD	-0,029m	
			RL	7,091m	VCGM	0,080m	
			WS	29,45m²			
			LSM0	9,962m	Displacement/Length ratio	8,7423	
			Water Ballast	0	Trim Tab	No	
			Centerboard				
			N/A				
			Comments				
			Propeller				
			Installation	Shaft exposed	PRD	0,480	
			Type	Feathering 2 blades	PBW	0,153	
					PIPA	0,0050	
			Scoring Options				
		COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance		656,3			741,1		
Time On Time		0,9142			0,9108		
Triple Number		Low	Medium	High	Low	Medium	High
Time on Distance		784,2	595,5	523,7	1019,6	752,6	636,3
Time on Time		0,8608	1,1335	1,2889	0,6620	0,8969	1,0608

BOAT	
Name ANNA	Sail Nr GRE-49542
File GR49542	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 06/04/1996		SG 1,0280	
FFM 1,213	FF 1,231	SFFP 0,500	
FAM 1,063	FA 1,060	SAFP 10,840	
W1 20,0	PD1 56,0	WD 12,620	
W2 40,0	PD2 110,0	GSA 28,3	
W3 60,0	PD3 162,0	RSA 5674,5	
W4 80,0	PD4 218,0	PLM 1660,0	
LCF from stem on CL / on sheer		6,503 / 6,722	
Maximum beam station from stem		6,856	
RM Measured		134,1kg·m	
RM Default		151,7kg·m	
Limit of positive stability / Stab.Index		114,5° / 118,8	
Freeboard at mast at 4,620		1,149	

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Stay None Fitted	Runners 0		
Carbon Mast No	Jumper Struts None		
Taper Hollows No	Jib Furler No		
Fiber Rigging No	Main Furler No		
Lenticular Rigging No	Without Backstay No		
Articulated Bowsprit No			
P 13,100	E 3,944	MDT1 0,145	MW 0,211
IG 14,791	J 4,620	MDL1 0,211	GO 0,261
ISP 14,721	SFJ 0,000	MDT2 0,145	BD 0,139
BAS 1,541	SPL 0,211	MDL2 0,211	MWT 0,139
FSP 0,072	TPS 4,570	TL 0,000	MCG



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2017 Measurements Datasheet

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Shaft exposed	PRD 0,480		
Type Feathering 2 blades	PBW 0,153		
Twin Screw No	PIPA 0,0050		
PSA 16,200	PHL 0,080	ST3 0,106	ESL 0,880
PSD 0,030	ST1 0,031	ST4 0,056	
PHD 0,075	ST2 0,098	ST5 0,195	

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COMMENTS	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
M1	0,139	0,90	1,62	2,74	3,52	32,53	STATHAKIS	28/03/2009	ZOUGANELI	Pentex						
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
G1		0,76	1,50	3,07	4,71	6,49	14,22	140%	44,81			STATHAK	28/03/2009	ZOUGANELI	Pentex	
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				
A1	14,04	14,04	14,04	8,00	8,14	93,93	asym					* Copied from legacy *				

MEASUREMENT INVENTORY				
Measurer TSALTAS				
Date 06/04/1996				
Comment				
Id	Item	Weight	Distance	VCG Description
OR	Anchor	70,0	1,00	*Legacy Anchor*
+	Anchor	40,0	40,80	Danforth
+	Chain	35,0	40,80	20m
+	Tools	20,0	6,80	
Id	Item	Maker	Model	
1	Engine	Perkins	50hp	
Id	Item	Weight	Description	
+	Deck-Gear	45,0		

MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn	Description	
1	Tank	Fuel	St. Steel	150,0	9,40			0,0	
2	Tank	Water	St. Steel	200,0	4,90			0,0	
3	Tank	Water	St. Steel	200,0	4,90			0,0	
Id	Item	Weight	Distance	VCG Description					
1	Battery	60,0	9,00						



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ORC Club Certificate Appendix

BOAT	
Name	ANNA
Certificate Number	F00337
Sail Nr	GRE-49542
Issued On	16/4/2017

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1166,7	969,5	864,5	793,0	752,6	731,7	715,9
52°	754,1	636,8	564,0	526,5	509,6	501,7	495,6
60°	708,0	599,7	535,6	508,5	494,0	485,6	479,1
75°	671,0	566,8	516,5	494,3	480,0	468,8	453,7
90°	671,8	567,4	513,1	487,3	476,6	463,9	441,5
110°	693,6	571,3	509,8	483,2	464,0	447,6	431,6
120°	718,4	591,4	518,9	488,7	468,9	450,5	417,6
135°	798,1	648,3	555,1	507,4	483,2	464,9	430,8
150°	938,5	743,8	635,7	562,2	523,2	499,0	468,3
Run VMG	1083,7	858,8	734,0	649,2	604,2	549,2	492,3

Selected Courses							
Windward / Leeward	1125,2	914,2	799,2	721,1	678,4	640,4	604,1
Circular Random	938,0	754,2	654,3	595,4	558,7	534,7	505,9
Ocean for PCS	1155,4	889,4	737,9	644,0	582,4	539,5	481,5
Non Spinnaker	990,8	790,2	679,6	613,1	571,2	543,8	511,7

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	44,3°	42,6°	42,8°	43,7°	42,3°	41,5°	40,9°
Beat VMG	3,09	3,71	4,16	4,54	4,78	4,92	5,03
52°	4,77	5,65	6,38	6,84	7,06	7,18	7,26
60°	5,08	6,00	6,72	7,08	7,29	7,41	7,51
75°	5,36	6,35	6,97	7,28	7,50	7,68	7,93
90°	5,36	6,34	7,02	7,39	7,55	7,76	8,15
110°	5,19	6,30	7,06	7,45	7,76	8,04	8,34
120°	5,01	6,09	6,94	7,37	7,68	7,99	8,62
135°	4,51	5,55	6,49	7,10	7,45	7,74	8,36
150°	3,84	4,84	5,66	6,40	6,88	7,21	7,69
Run VMG	3,32	4,19	4,90	5,55	5,96	6,56	7,31
Gybe Angles	145,8°	147,1°	146,4°	146,8°	149,5°	172,8°	176,5°