

BOAT Name St. ANNA Sail Nr RUS-501	GPH 580.7	HULL Length Overall 12.370m Maximum Beam 3.368m Displacement 7,713kg Draft 2.560m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.118% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL Class SKIF 42 Designer FARR Bruce Builder NP 40 FEET Series 04/2004 Age 04/2004 Age Allowance 0.455% Offset File E6606c.OFF - 25/05/2006 11:34:20 Measurement by K.SFAKIANAKI - 08/09/2018		IMSL 11.187m VCGD 0.295m Sink 23.66kg/mm RL 9.831m VCGM 0.144m WS 32.10m² LSM0 10.888m Displacement/Length ratio 5.9756



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SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	564.7			630.8		
Time on Time	1.0624			1.0701		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	662.3	514.6	462.7	856.1	633.5	552.4
Time on Time	1.0192	1.3118	1.4588	0.7885	1.0655	1.2219

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	968.5	795.9	706.6	673.5	660.3	652.1	639.0
52°	640.4	534.6	487.0	472.1	466.3	463.5	455.8
60°	608.2	512.3	473.3	459.0	453.5	450.7	443.5
75°	584.6	497.8	463.8	446.9	436.9	431.8	427.4
90°	580.4	487.9	459.9	444.6	429.2	416.5	402.5
110°	581.2	484.3	449.4	428.8	416.1	405.2	389.5
120°	600.6	496.2	455.1	431.1	408.3	390.3	368.4
135°	673.0	545.3	478.3	448.6	425.6	401.7	356.3
150°	800.5	636.9	537.8	479.4	450.4	428.7	385.0
Run VMG	924.3	735.4	620.9	547.6	499.0	463.0	419.3

Certificate

Number **050110**
ORC Ref **RUS00001886**
Issued On **09/09/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default **777kg**
Maximum **816kg**
Minimum* **612kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	585.9	1.0241
Double H.OSN	571.9	1.0492
Non Spin GPH	615.1	0.9755
Non Spin OSN	597.1	1.0049

Selected Courses							
Windward / Leeward	946.4	765.7	663.7	610.5	579.6	557.5	529.2
Circular Random	797.3	644.2	563.2	517.1	489.2	470.8	446.6
Coastal / Long Distance	944.2	719.2	599.2	534.1	499.5	471.7	427.8
Non Spinnaker	860.9	688.7	595.7	541.5	508.2	486.5	458.9

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	42.1°	40.7°	39.8°	38.7°	38.2°	37.9°	38.2°
Beat VMG	3.72	4.52	5.09	5.35	5.45	5.52	5.63
52°	5.62	6.73	7.39	7.63	7.72	7.77	7.90
60°	5.92	7.03	7.61	7.84	7.94	7.99	8.12
75°	6.16	7.23	7.76	8.05	8.24	8.34	8.42
90°	6.20	7.38	7.83	8.10	8.39	8.64	8.94
110°	6.19	7.43	8.01	8.40	8.65	8.88	9.24
120°	5.99	7.25	7.91	8.35	8.82	9.22	9.77
135°	5.35	6.60	7.53	8.03	8.46	8.96	10.10
150°	4.50	5.65	6.69	7.51	7.99	8.40	9.35
Run VMG	3.89	4.90	5.80	6.57	7.21	7.78	8.59
Gybe Angles	142.2°	147.7°	150.5°	155.7°	169.7°	180.0°	180.0°

Class Division Length

CDL = **10.510**

Storm Sails Areas

Heavy Weather Jib **33.98**
Storm Jib (JL=10.31) **12.59**
Storm Trysail **17.11**

Owner

BOAT			
Name	St. ANNA	Sail Nr	RUS-501
File	RU0501_StAnna	Data in	meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test		Current Inclining	
Flotation date	08/09/2018	SG	1.0200
FFM	1.407	FF	1.408
FAM	0.993	FA	0.996
SFFP	0.245	SAFP	12.120
W1	110.0	PD1	610.8
W2	110.0	PD2	611.9
W3	110.0	PD3	608.5
W4	110.0	PD4	610.8
WD	11.600	GSA	1.0
RSA	1.0	PLM	9000.0
LCF from stem on CL / on sheer	6.893 / 7.085		
Maximum beam station from stem	8.226		
RM Measured	164.6kg-m		
RM Default	196.7kg-m		
Limit of positive stability / Stab.Index	109.5° / 117.1		
Freeboard at mast at 4.718	1.193		



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IMS Measurement Certificate

RIG			
Forestay Tension	Aft	Spreaders	2
Inner Stay	None Fitted	Runners	0
Carbon Mast	Yes	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	16.400	E	5.960
IG	15.813	J	4.500
ISP	18.374	SFJ	0.218
BAS	1.710	SPL	4.500
FSP	0.065	TPS	5.230
MDT1	0.127	MW	0.254
MDL1	0.254	GO	0.269
MDT2	0.106	BD	0.290
MDL2	0.172	MWT	190.00
TL	2.320	MCG	5.980

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.381
Type	Folding 2 blades	PBW	
Twin Screw	No	PIPA	0.0030
ST1	0.048	ST3	0.176
ST2	0.176	ST4	0.098
ST5	0.250	EDL	1.830

COMMENTS	

MOVABLE BALLAST	
N/A	



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Invalid for racing

CENTERBOARD	
N/A	

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.215	1.15	2.06	3.57	4.75	55.38	56.25	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	112.83		SL · (SFL + 4·SHW) / 6	
	15.70	15.70	15.70	8.73	8.20				
Asymmetric	SLU	SLE	SL	SHW	SFL	117.77		AS · (SFL + 4·SHW) / 6	
	19.10	15.76	17.43	8.16	7.90				

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	Fly	Meas.Date	Material	Comment
0.09	0.71	1.35	2.55	3.67	4.73	15.38	38.16			21/08/2018	Carbon	
					4.54	14.57	33.67			17/09/2005	Unknow	

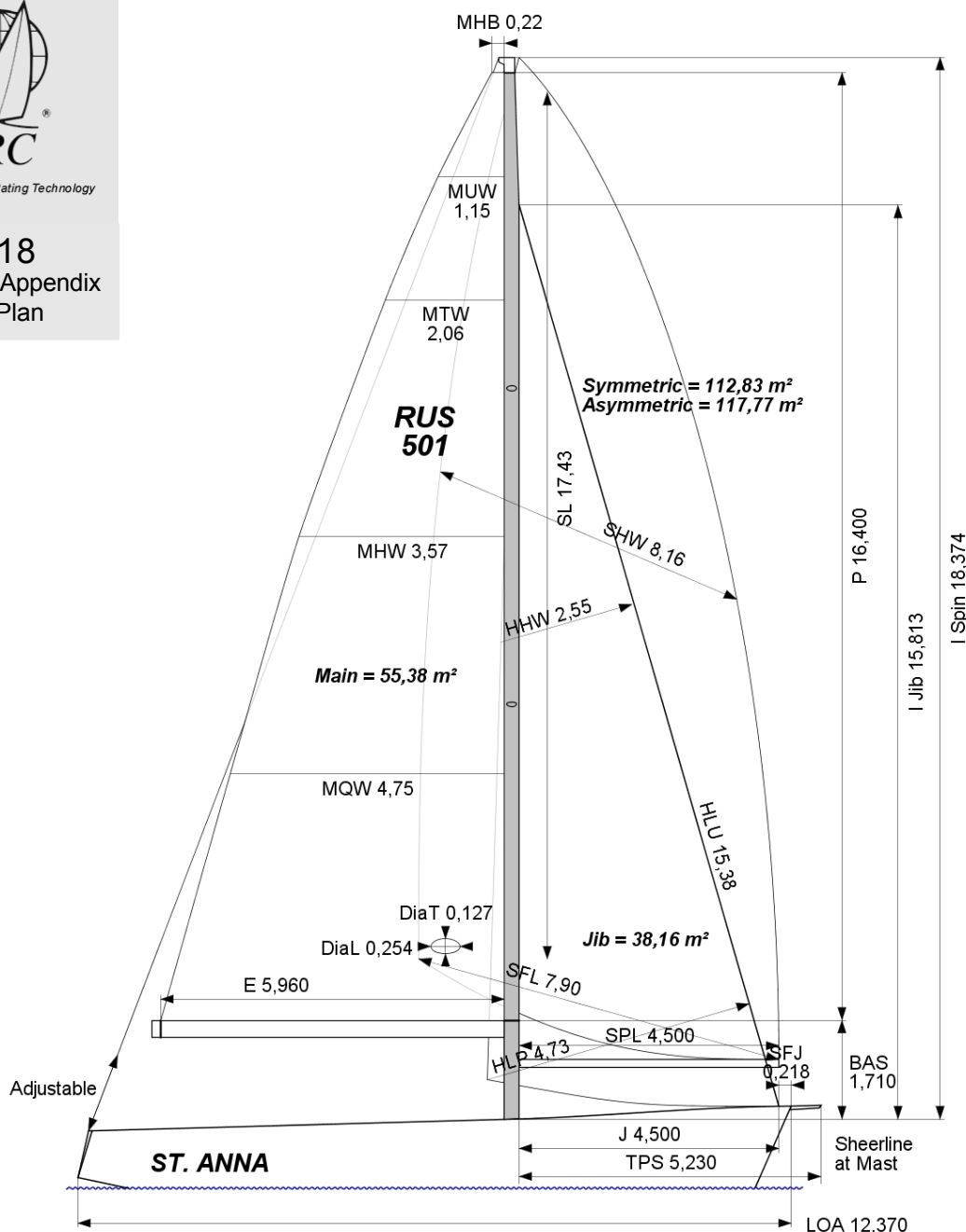
MEASUREMENT INVENTORY				
Measurer K.SFAKIANAKI GRE-7				
Date 08/09/2018				
Comment				
Id	Item	Weight	Distance	VCG Description
1	Engine			YANMAR SD40
Id	Item	Weight Description		

MEASUREMENT INVENTORY									
Id	Item	Tank	Use	Tank Type	Capcty	Dist.	VCG	Condtn	Description
3	Tank	WATER		INOX	60.0	6.30	0.06	0-0	
2	Tank	WATER		INOX	60.0	6.30	0.06	0-0	
1	Tank	FUEL		PLASTIC	30.0	9.50	0.00	8-0	
Id	Item	Weight	Distance	VCG Description					
1	Ballast	1000.0	5.54	-0.20 6 p lead of 0.63x0.15x0.155					
2	Battery	12.0	9.00	-0.10 1X45AH					
1	Battery	15.0	9.00	-0.10 1X75AH					
1	Misc	5.0	5.70	-0.05 WOODEN TABLE					



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL (1)

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
ORC	0.215	1.15	2.06	3.57	4.75	55.24	I.KALATZIS	21/08/2018	NORTH	Carbon	* Copied from legacy

HEADSAILS (2)

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.09	0.71	1.35	2.55	3.67	4.73	15.38	105%	38.16			I.KALATZI	21/08/2018	NORTH	Carbon	
OLD						4.54	14.57	101%	33.67			I.KALATZI	17/09/2005		Unknow	

SYMMETRIC SPINNAKERS (2)

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment
IRC1S	15.70	15.70	15.70	8.73	8.20	112.83	K.SFAKIANAKI	08/09/2018		Unknown	
OLD	15.69	15.69	15.69	7.94		104.23	US206	17/01/2004		Unknown	

ASYMMETRIC SPINNAKERS (1)

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
1	19.10	15.76	17.43	8.16	7.90	117.77	asym	K.SFAKIANAKI	08/09/2018		Unknown	