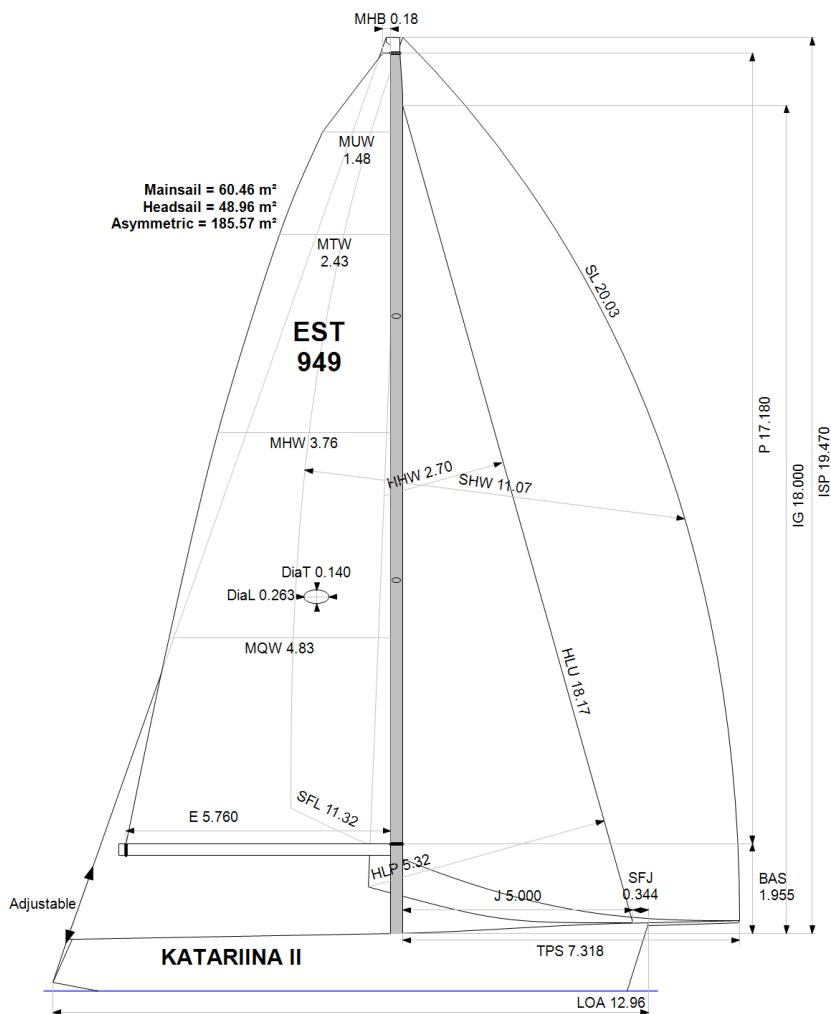


GPH = **538.3** CDL = **11.460**



BOAT

Class **SWAN 42 CLUB**
Designer **FRERS**
Builder **NAUTOR**
Age Date **07/2008**
Series Date **05/2006**
Offset File **SWAN42CLUB.OD.OFF**

HULL

Length Overall **12.960 m**
Maximum Beam **3.910 m**
Draft **2.736 m**
Displacement **7,561 kg**
DLR **4.9649**
IMS Division **Performance**
Dynamic Allowance **0.000%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.430m**

CREW

Maximum weight **895 kg**
Minimum weight **671 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	60.46	61.84
Headsail Luffed	48.96	48.96
Headsail Flying		
Symmetric		
Asymmetric	185.56	185.56

* 1 asymmetric(s) with SHW/SFL < 85%

SAIL LIMITATIONS

Headsails **6**
Spinnakers **4**

STABILITY

Righting Moment **225.1 kg·m**
Stability Index **138.9**

OWNER

The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.

Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.8°	40.9°	39.4°	38.3°	38.1°	37.5°	37.5°
Beat VMG	4.04	4.90	5.45	5.68	5.79	5.87	5.98
52°	6.14	7.29	7.82	8.02	8.11	8.16	8.31
60°	6.49	7.56	8.02	8.24	8.35	8.42	8.58
75°	6.80	7.78	8.19	8.50	8.76	8.91	9.06
90°	7.10	8.03	8.46	8.75	9.01	9.33	9.79
110°	6.93	7.96	8.49	9.03	9.59	10.07	10.75
120°	6.59	7.84	8.44	9.02	9.50	10.17	11.48
135°	5.91	7.35	8.13	8.67	9.32	10.06	11.81
150°	4.97	6.23	7.33	8.08	8.49	8.94	10.34
Run VMG	4.31	5.39	6.35	7.00	7.36	7.84	8.96
Gybe Angles	143.0°	145.0°	149.0°	152.0°	151.5°	176.0°	143.3°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	891.3	734.5	660.3	633.6	622.0	612.8	601.8
52°	586.1	493.8	460.2	449.0	443.8	441.1	433.1
60°	554.6	476.1	448.9	436.9	431.1	427.7	419.7
75°	529.2	462.6	439.7	423.5	411.2	404.0	397.2
90°	506.8	448.4	425.7	411.4	399.6	386.1	367.7
110°	519.4	452.2	424.1	398.6	375.5	357.6	334.8
120°	546.6	459.1	426.4	399.0	378.8	354.1	313.7
135°	608.8	490.0	443.1	415.2	386.4	357.8	304.7
150°	723.7	578.1	491.0	445.4	424.3	402.8	348.1
Run VMG	835.6	667.5	567.0	513.9	489.0	459.4	402.0
Selected Courses							
Windward / Leeward	863.5	701.0	613.6	573.8	555.5	536.1	501.9
All purpose	659.8	548.5	495.8	469.3	453.1	438.0	411.4

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	597.9	1.0034
All purpose	482.8	1.2428

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	525.8	1.1412
Triple Number Coastal/Long Distance Low	604.2	0.9931
Triple Number Coastal/Long Distance Medium	480.7	1.2483
Triple Number Coastal/Long Distance High	431.8	1.3895
Triple Number Windward/Leeward Low	782.3	0.7670
Triple Number Windward/Leeward Medium	593.1	1.0116
Triple Number Windward/Leeward High	528.1	1.1361

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	860.7	658.9	555.6	500.5	472.0	443.2	392.1



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	SWAN 42 CLUB	LOA	12.960	VCGD	-0.380
Measurement	08/05/2019	Max. Beam	3.910	VCGM	-0.387
Measurer		Draft	2.736	RM Measured (kg·m)	225.1
HIN		Displacement	7.561	RM Default (kg·m)	213.5
Plan review		Wetted area	32.91	Limit of positive stability(°)	136.4
Hull construction	Cored	IMS L	11.824	Stability Index	138.9
Carbon Rudder	Yes	LSM0	11.505		
Light stanchions	No	Acc. length	12.707		
Trim tab	No	Sink (kg/mm)	24.30		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.430	EDL	1.800	ST3	0.180
Installation	Strut	PBW	0.110	ST1	0.065	ST4	0.110
Twin screw	No			ST2	0.180	ST5	0.302
PIPA	0.0041						

RIG

Forestay tension	Aft	P	17.180	E	5.760
Inner stay	None Fitted	IG	18.000	J	5.000
Carbon mast	Yes	ISP	19.470	BAS	1.955
Headsail furler	No	MDT1	0.140	FSD	
Mainsail furler	No	MDL1	0.263	SFJ	0.344
Articulated bowsprit	No	MDT2	0.140	SPL	0.000
Non-circular rigging	No	MDL2	0.190	TPS	7.318
Fiber rigging	No	TL	0.900	BD	0.248
Runners/Checkstays	0	MW	0.263	MWT	255.00
Spreaders	2	GO	0.310	MCG	6.150

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.474	SAFP	12.543	W1	99.4	PD1	493.1	WD	14.270
Flotation Date	30/07/2020	FFM	1.465	FAM	1.119	W2	99.4	PD2	500.3	PLM	9000.00
Measurer		FF	1.465	FA	1.119	W3	99.4	PD3	495.4	GSA	1.0
Comment	Carbon boom	LCFcl	7.166	LCFsh	7.414	W4	99.4	PD4	496.5	RSA	1.0
		SG	1.0260	HBI	1.247						

MEASUREMENT INVENTORY

Id	Tank	Type	Capacity	LCG	VCG	Condition	Description
A	FUEL	PVC	70.0	5.85	5.00		STB
B	FUEL	PVC	70.0	5.85	0.00		PORT
C	WATER	PVC	320.0	6.60	0.00		2x160l
Id	Item	Description	Weight	LCG	VCG		
A	Ballast	5 pieces lead PORT	85.4	7.89			
B	Ballast	4 pieces lead STB	68.3	7.61			
C	Ballast	CORRECTOR WEIGHTS 1 PORT+1 STB	20.8	8.61			
D	Ballast	CORRECTOR WEIGHTS 2xCX	20.0	5.15			
Total ballast			194.5				
Id	Item	Description	Weight	LCG	VCG		
A	Battery	2 BATTERIES CX		6.31			
B	Battery	1 BATTERY STB		9.41			
A	Miscellaneous	COOKING STOVE		8.16			
B	Miscellaneous	AUTOPILOT		11.88			



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
C1	0.18	1.48	2.43	3.76	4.83	60.46		26/07/2021	NORTH	Unknown	2018
B	0.17	1.48	2.43	3.75	4.82	60.37		30/04/2018	N/S	Unknown	2017

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
D1	0.09	0.80	1.48	2.70	3.90	5.32	18.17	Yes	No		48.96		26/07/2021	north	Unknown	Medium 2019
J1	0.10	0.73	1.36	2.70	4.03	5.32	18.06	Yes	No		48.69		26/07/2021	north	Unknown	superlight 2019
I1	0.10	0.79	1.47	2.67	3.91	5.32	18.00	Yes	No		48.38		26/07/2021	North	Unknown	Light 2019
G	0.10	0.72	1.34	2.55	3.84	5.30	18.30	Yes	No		47.80		10/09/2018	NORTH	Unknown	Heavy 2018
L	0.10	0.70	1.33	2.60	3.94	5.33	15.92	Yes	No		42.13		03/02/2021	North	Unknown	J4
K	0.10	0.80	1.60	1.80	3.50	3.96	16.85	No	Inner		37.10				Unknown	Stay sail

ASYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Measurer	Meas.Date	Maker	Material	Comment
K1	22.04	18.01	20.03	11.07	11.32	98%	185.56		26/07/2021	N/S	Unknown	A1,5
H	22.10	17.69	19.90	11.12	11.07	100%	184.19		08/05/2019	NORTH	Unknown	A2 2018
J1	22.33	17.79	20.06	11.02	10.92	101%	183.88		26/07/2021	N/S	Unknown	A2
F	21.84	17.97	19.91	10.97	11.29	97%	183.03		30/04/2019	N/S	Unknown	A1,5 2019
L	19.44	18.28	18.86	7.12	9.12	78%	118.19		20/07/2021	N/s	Unknown	A0 2021