

GPH = 619.1 **CDL = 8.955**

BOAT

Class **First 36.7 mod**
Designer **B.Farr**
Builder **Beneteau S.A.**
Age Date **05/2005**
Series Date **01/2001**
Offset File **FIRST367-EST379.off**

HULL

Length Overall **10.640 m**
Maximum Beam **3.458 m**
Draft **2.033 m**
Displacement **5,711 kg**
DLR **6.5572**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.068%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.410m**

CREW

Maximum weight **660 kg**
Minimum weight **495 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	43.08	44.16
Headsail Luffed	33.53	33.53
Headsail Flying		
Symmetric		
Asymmetric	121.84	121.84

** All asymmetric spinnakers with SHW/SFL > 85%*

SAIL LIMITATIONS

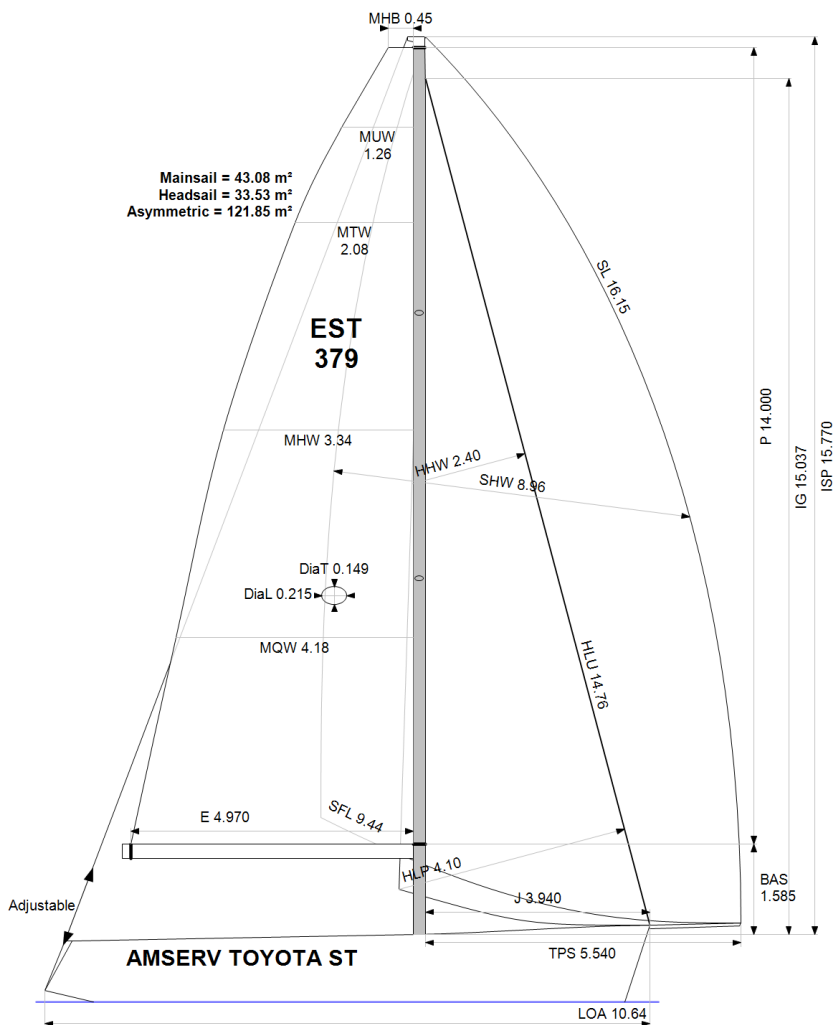
Headsails **5**
Spinnakers **4**

STABILITY

Righting Moment **140.1 kg·m**
Stability Index **121.5**

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°	41.6°	41.3°	39.9°	39.6°	39.4°	40.2°
Beat VMG	3.45	4.15	4.68	4.92	5.01	5.03	5.10
52°	5.28	6.24	6.84	7.08	7.16	7.20	7.29
60°	5.59	6.54	7.04	7.27	7.37	7.41	7.49
75°	5.85	6.75	7.18	7.45	7.65	7.77	7.86
90°	5.87	6.92	7.31	7.51	7.79	8.05	8.40
110°	5.98	7.04	7.52	7.89	8.15	8.36	8.76
120°	5.84	6.93	7.45	7.89	8.34	8.71	9.20
135°	5.24	6.45	7.18	7.60	8.04	8.52	9.58
150°	4.45	5.53	6.50	7.10	7.43	7.73	8.48
Run VMG	3.85	4.79	5.63	6.16	6.55	7.08	7.74
Gybe Angles	145.0°	148.0°	148.8°	151.0°	174.0°	177.0°	178.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1043.4	868.1	769.8	731.9	719.3	715.9	706.5
52°	682.5	576.7	526.0	508.3	502.5	500.1	493.8
60°	644.3	550.8	511.5	495.1	488.6	485.6	480.5
75°	615.0	533.4	501.2	483.1	470.6	463.6	458.3
90°	613.3	520.4	492.3	479.1	462.3	447.2	428.6
110°	602.1	511.7	478.8	456.0	441.6	430.8	410.9
120°	616.7	519.2	483.0	456.4	431.7	413.4	391.3
135°	687.1	558.3	501.5	473.6	447.7	422.6	375.9
150°	809.4	650.7	553.8	507.1	484.3	465.9	424.5
Run VMG	934.6	751.4	639.4	584.5	549.3	508.8	464.9
Selected Courses							
Windward / Leeward	989.0	809.8	704.6	658.2	634.3	612.3	585.7
All purpose	761.0	632.5	567.5	537.6	520.2	506.8	485.8

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	686.2	0.8744
All purpose	555.1	1.0809

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	604.7	0.9923
Triple Number Coastal/Long Distance Low	696.8	0.8611
Triple Number Coastal/Long Distance Medium	551.2	1.0886
Triple Number Coastal/Long Distance High	502.3	1.1945
Triple Number Windward/Leeward Low	899.4	0.6671
Triple Number Windward/Leeward Medium	680.3	0.8819
Triple Number Windward/Leeward High	607.8	0.9871

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	983.5	759.9	637.0	574.0	540.0	510.8	463.3



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	First 36.7 mod	LOA	10.640	VCGD	0.025
Measurement	05/08/2019	Max. Beam	3.458	VCGM	0.012
Measurer		Draft	2.033	RM Measured (kg·m)	140.1
HIN		Displacement	5,711	RM Default (kg·m)	142.6
Plan review		Wetted area	26.15	Limit of positive stability(°)	119.3
Hull construction	Solid	IMS L	9.597	Stability Index	121.5
Carbon Rudder	Yes	LSM0	9.550		
Light stanchions		Acc. length	10.640		
Trim tab	No	Sink (kg/mm)	19.28		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.410	EDL	2.480	ST3	0.180
Installation	Strut	PBW	0.130	ST1	0.042	ST4	0.090
Twin screw	No			ST2	0.180	ST5	0.280
PIPA	0.0027						

RIG

Forestay tension	Aft	P	14.000	E	4.970
Inner stay	None Fitted	IG	15.037	J	3.940
Carbon mast	Yes	ISP	15.770	BAS	1.585
Headsail furler	No	MDT1	0.149	FSD	0.034
Mainsail furler	No	MDL1	0.215	SFJ	0.000
Articulated bowsprit	No	MDT2	0.120	SPL	
Non-circular rigging	No	MDL2	0.198	TPS	5.540
Fiber rigging	No	TL	0.760	BD	0.250
Runners/Checkstays	0	MW	0.215	MWT	151.50
Spreaders	2	GO	0.240	MCG	5.650

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.367	SAFP	10.162	W1	88.0	PD1	575.1	WD	11.620
Flotation Date	04/06/2021	FFM	1.332	FAM	1.047	W2	88.0	PD2	577.8	PLM	9000.00
Measurer		FF	1.338	FA	1.058	W3	88.0	PD3	576.0	GSA	1.0
Comment		LCFcl	5.883	LCFsh	6.099	W4	88.0	PD4	571.0	RSA	1.0
		SG	1.0000	HBI	1.185						

MEASUREMENT INVENTORY

Id	Tank	Type	Capacity	LCG	VCG	Condition	Description
2	Water	Neopren bag	150.0	4.75		0-0	Water tank, strb
1	fuel	steel	60.0	8.70		29-0	Fuel tank, center
Id	Item	Description	Weight	LCG	VCG		
2	Ballast	22 kg, center	22.0	5.53			
1	Ballast	45+40+44 kg, center, 3 pieces on top of each other	129.0	5.98			
Total ballast			151.0				
Id	Item	Description	Weight	LCG	VCG		
2	Battery	30 Ah	3.0	7.00			
1	Battery	90 Ahx2	17.0	7.00			
3	Miscellaneous	Air dryer, port		5.98			
2	Miscellaneous	Autopilot - Raymarine		10.00			
1	Miscellaneous	Heater - Eberspächer Marine D4		10.00			



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
7a	0.45	1.26	2.08	3.34	4.18	43.08		05/08/2019	NorthSails	Unknown	P14,00;E4,97
6b	0.42	1.15	1.89	3.24	4.13	41.83		25/06/2021	OneSails	Unknown	P14,00;E4,97 ümber löigatud

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
15a	0.12	0.78	1.42	2.40	3.25	4.10	14.76	Yes	No		33.53		22/07/2021	North Sails	Unknown	Light 20/21
14b	0.11	0.71	1.30	2.27	3.13	4.04	14.61	No	No		31.81		17/06/2020	NorthSails	Unknown	Jib 2 Medium 2019
13b	0.13	0.71	1.29	2.26	3.14	4.03	14.55	No	No		31.64		05/08/2019	NorthSails	Unknown	Jib 1 Light 2018
7	0.10	0.61	1.15	2.16	3.15	4.10	14.10	No	No		30.02		02/03/2015		Unknown	Jib 3 Heavy 2015
10	0.06	0.48	0.86	1.49	2.05	2.73	13.03	No	Inner		18.80		12/01/2015	NorthSails	Unknown	Staysail 2012

ASYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Ratio	Area	Measurer	Meas.Date	Maker	Material	Comment
A2	18.06	14.23	16.15	8.96	9.44	95%	121.84		22/02/2021	One Sails	Unknown	A2
A4	17.98	13.80	15.89	9.02	9.63	94%	121.06		22/02/2021	One Sails	Unknown	A4
A1	17.41	14.83	16.12	8.81	9.79	90%	120.98		22/02/2021	One Sails	Unknown	A1