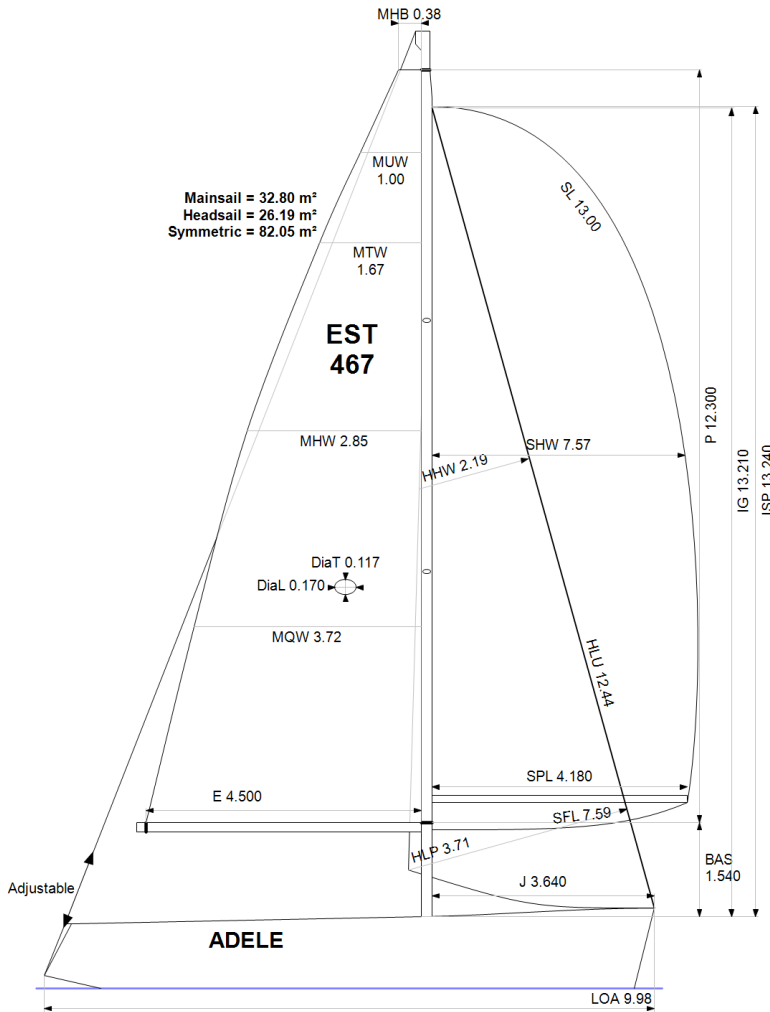


GPH = 643.6 **CDL = 8.524**



BOAT

Class **First 34.7**
Designer **Farr**
Builder **Beneteau**
Age Date **05/2007**
Series Date **10/2005**
Offset File **FIRST347.off**

HULL

Length Overall **9.980 m**
Maximum Beam **3.372 m**
Draft **1.991 m**
Displacement **4,469 kg**
DLR **6.3088**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.201%**
Age Allowance **0.487%**

PROPELLER

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

CREW

Maximum weight **690 kg**
Minimum weight **518 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	32.80	33.47
Headsail Luffed	26.19	26.19
Headsail Flying		
Symmetric	82.05	82.05
Asymmetric		

SAIL LIMITATIONS

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

STABILITY

Righting Moment **95.7 kg·m**
Stability Index **124.0**

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	43.1°	42.0°	41.3°	39.8°	39.6°	39.6°	39.6°
Beat VMG	3.25	3.92	4.46	4.82	4.94	4.98	5.03
52°	5.00	5.94	6.58	6.90	7.04	7.09	7.13
60°	5.30	6.25	6.78	7.07	7.24	7.31	7.33
75°	5.54	6.49	6.95	7.23	7.46	7.65	7.82
90°	5.49	6.56	7.09	7.34	7.54	7.82	8.29
110°	5.57	6.69	7.22	7.62	8.01	8.27	8.68
120°	5.42	6.56	7.15	7.56	8.01	8.46	9.12
135°	4.92	6.05	6.85	7.28	7.69	8.14	9.15
150°	4.15	5.21	6.17	6.87	7.27	7.65	8.49
Run VMG	3.59	4.52	5.35	6.07	6.68	7.12	7.85
Gybe Angles	145.5°	150.0°	151.0°	158.0°	180.0°	180.0°	180.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1107.2	918.0	806.5	747.0	728.4	722.4	715.5
52°	720.0	606.4	547.3	521.8	511.5	507.8	504.8
60°	679.0	575.8	530.6	509.1	497.5	492.7	490.9
75°	650.0	554.8	518.2	498.1	482.4	470.3	460.5
90°	655.8	548.8	507.5	490.7	477.7	460.6	434.2
110°	646.5	538.2	498.9	472.5	449.3	435.3	414.9
120°	664.3	548.5	503.7	476.0	449.5	425.6	394.6
135°	731.0	594.8	525.7	494.3	468.3	442.4	393.6
150°	867.5	690.4	583.3	523.8	494.9	470.8	424.0
Run VMG	1001.7	797.2	672.9	593.5	539.2	505.4	458.5
Selected Courses							
Windward / Leeward	1054.4	857.6	739.7	670.2	633.8	613.9	587.0
All purpose	810.7	668.0	593.0	552.0	527.8	512.6	489.7

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	705.0	0.8511
All purpose	572.8	1.0474

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	624.9	0.9601
Triple Number Coastal/Long Distance Low	739.4	0.8115
Triple Number Coastal/Long Distance Medium	569.3	1.0540
Triple Number Coastal/Long Distance High	507.8	1.1815
Triple Number Windward/Leeward Low	956.0	0.6276
Triple Number Windward/Leeward Medium	699.9	0.8573
Triple Number Windward/Leeward High	608.8	0.9856

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1049.2	804.2	667.1	588.5	549.2	518.4	468.0

Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	First 34.7	LOA	9.980	VCGD	-0.055
Measurement	25/07/2019	Max. Beam	3.372	VCGM	-0.031
Measurer		Draft	1.991	RM Measured (kg·m)	95.7
HIN		Displacement	4,469	RM Default (kg·m)	97.0
Plan review		Wetted area	21.87	Limit of positive stability(°)	124.9
Hull construction	Cored	IMS L	9.067	Stability Index	124.0
Carbon Rudder	No	LSM0	8.914		
Light stanchions		Acc. length	9.980		
Trim tab	No	Sink (kg/mm)	16.29		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.410	EDL	1.800	ST3	0.180
Installation	Strut	PBW		ST1	0.120	ST4	0.110
Twin screw	No			ST2	0.180	ST5	0.180
PIPA	0.0036						

RIG

Forestay tension	Aft	P	12.300	E	4.500
Inner stay	None Fitted	IG	13.210	J	3.640
Carbon mast	No	ISP	13.240	BAS	1.540
Headsail furler	No	MDT1	0.117	FSD	0.035
Mainsail furler	No	MDL1	0.170	SFJ	0.000
Articulated bowsprit	No	MDT2	0.117	SPL	4.180
Non-circular rigging	No	MDL2	0.135	TPS	
Fiber rigging	No	TL	0.475	BD	
Runners/Checkstays	0	MW	0.170	MWT	129.10
Spreaders	2	GO	0.192	MCG	4.540

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.172	SAFP	9.530	W1	65.1	PD1	565.8	WD	10.550
Flotation Date	10/07/2019	FFM	1.303	FAM	1.041	W2	65.1	PD2	565.3	PLM	9000.00
Measurer		FF	1.310	FA	1.050	W3	65.1	PD3	564.5	GSA	1.0
Comment	Tallinn-Pirita	LCFcl	5.375	LCFsh	5.610	W4	65.1	PD4	565.5	RSA	1.0
		SG	1.0000	HBI	1.172						

MEASUREMENT INVENTORY

Id	Tank Type	Capacity	LCG	VCG	Condition	Description
1	Water	100.0	4.00			Water tank, portside
2	Fuel	60.0	7.55			20.0 Fuel tank, starboard
Id	Item Description	Weight	LCG	VCG		
1	Battery Battery Tudor 70Ah, portside		3.80			
2	Battery Battery Varta 90Ah, portside		4.10			
1	Miscellaneous Shore Power 10.0		8.15			

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
6a	0.38	1.00	1.67	2.85	3.72	32.80		01/07/2021		Unknown	P12,30;E4,50

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
10	0.33	0.82	1.34	2.19	2.99	3.71	12.44	Yes	No		26.19		29/06/2021		Unknown	
8a	0.13	0.64	1.17	2.10	2.97	3.71	12.84	Yes	No		25.94		01/07/2021		Unknown	
9	0.33	0.78	1.28	2.12	2.95	3.74	12.44	Yes	No		25.76		29/06/2021		Unknown	
6	0.11	0.58	1.09	2.07	2.97	3.72	12.90	Yes	No		25.72				Unknown	
4	0.10	0.49	0.91	1.76	2.66	3.57	12.27	No	No		21.95		26/05/2010		Unknown	

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Maker	Material	Comment
8	13.00	13.00	13.00	7.57	7.59	82.05			Onesails	Unknown	
7	13.30	13.31	13.31	7.38	7.41	81.89		19/04/2021	Onesails	Unknown	
6a	13.17	13.17	13.17	7.56	7.05	81.85		24/04/2018		Unknown	
4	13.10	13.10	13.10	6.82	6.50	73.75		27/07/2013		Unknown	
2	12.98	12.98	12.98	6.59	6.34	70.74				Unknown	
3	13.02	13.02	13.02	6.00	6.50	66.19		30/07/2012	OneSails	Unknown	S3