

GPH = 648.4 **CDL = 8.554**

BOAT

Class **First 34.7**
Designer **Farr**
Builder **Beneteau**
Age Date **03/2007**
Series Date **10/2005**
Offset File **FIRST347.off**

HULL

Length Overall **9.980 m**
Maximum Beam **3.372 m**
Draft **2.001 m**
Displacement **4,638 kg**
DLR **6.4319**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.225%**
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	33.41	34.12
Headsail Luffed	26.11	26.11
Headsail Flying		
Symmetric	71.13	71.13
Asymmetric		

SAIL LIMITATIONS

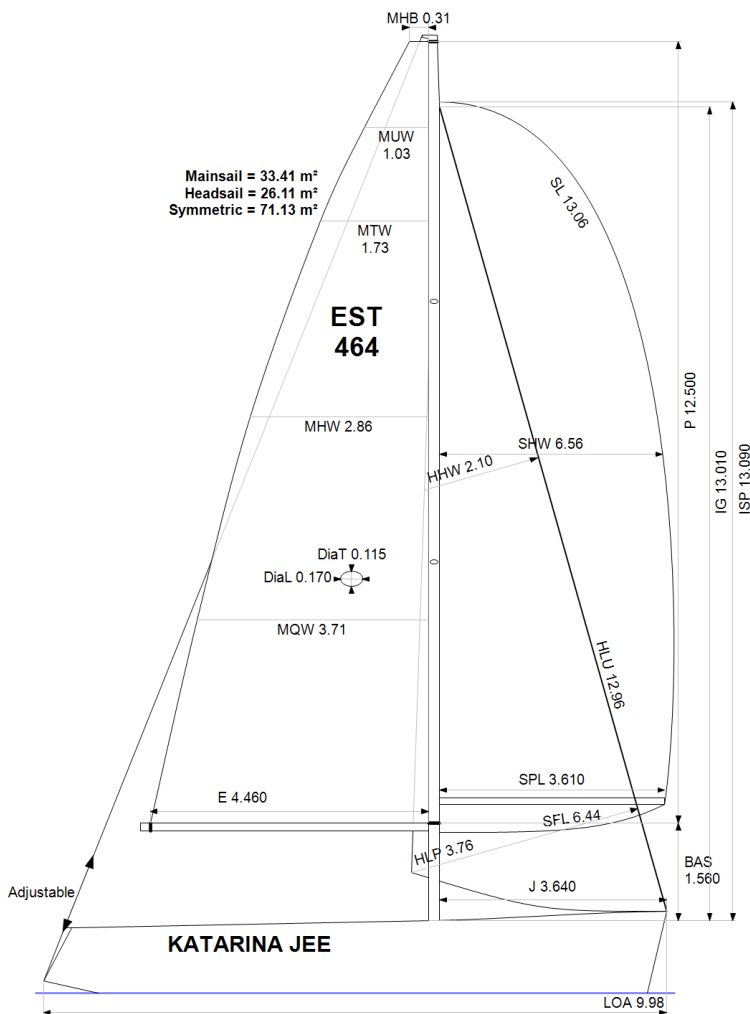
Headsails **5**
Spinnakers **4**

STABILITY

Righting Moment **483.1 kg·m**
Stability Index **179.7**

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°	41.6°	41.3°	39.8°	39.0°	39.4°	39.4°
Beat VMG	3.26	3.93	4.47	4.82	4.95	4.99	5.04
52°	5.01	5.93	6.58	6.90	7.03	7.09	7.13
60°	5.31	6.25	6.78	7.06	7.23	7.30	7.32
75°	5.54	6.48	6.94	7.22	7.45	7.63	7.80
90°	5.47	6.51	7.07	7.36	7.51	7.78	8.25
110°	5.47	6.60	7.15	7.53	7.92	8.26	8.65
120°	5.30	6.44	7.06	7.45	7.86	8.29	9.08
135°	4.79	5.89	6.73	7.18	7.55	7.96	8.86
150°	4.06	5.11	6.03	6.76	7.18	7.52	8.30
Run VMG	3.51	4.43	5.24	5.95	6.59	7.05	7.73
Gybe Angles	145.5°	150.0°	152.0°	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	1103.7	916.2	805.6	746.6	727.7	721.3	715.0
52°	718.6	606.6	547.5	522.1	511.8	508.0	505.2
60°	678.2	576.4	530.9	509.6	498.1	493.2	491.7
75°	649.7	555.5	518.7	498.8	483.5	471.8	461.8
90°	658.1	552.8	509.5	489.0	479.3	462.6	436.6
110°	657.7	545.5	503.8	478.3	454.4	435.9	416.0
120°	678.8	558.9	509.7	483.1	458.2	434.3	396.6
135°	751.3	611.6	534.9	501.2	476.9	452.2	406.1
150°	887.4	704.5	596.6	532.3	501.5	478.6	433.6
Run VMG	1024.7	813.5	687.6	604.6	546.4	510.6	465.4
Selected Courses							
Windward / Leeward	1064.2	864.8	746.6	675.6	637.0	615.9	590.2
All purpose	818.1	674.0	597.6	555.4	531.0	515.4	493.0

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	710.2	0.8448
All purpose	576.9	1.0401

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	629.5	0.9531
Triple Number Coastal/Long Distance Low	746.1	0.8042
Triple Number Coastal/Long Distance Medium	573.3	1.0466
Triple Number Coastal/Long Distance High	510.9	1.1743
Triple Number Windward/Leeward Low	964.5	0.6221
Triple Number Windward/Leeward Medium	705.4	0.8506
Triple Number Windward/Leeward High	611.6	0.9811

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1060.2	811.5	673.0	592.3	552.7	522.0	470.8



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	First 34.7	LOA	9.980	VCGD	-4.811
Measurement	18/06/2021	Max. Beam	3.372	VCGM	-4.797
Measurer		Draft	2.001	RM Measured (kg·m)	483.1
HIN		Displacement	4,638	RM Default (kg·m)	99.0
Plan review		Wetted area	22.16	Limit of positive stability(°)	180.0
Hull construction	Cored	IMS L	9.117	Stability Index	179.7
Carbon Rudder	No	LSM0	8.967		
Light stanchions	No	Acc. length	9.980		
Trim tab	No	Sink (kg/mm)	16.49		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.410	EDL	1.800	ST3	0.182
Installation	Strut	PBW		ST1	0.035	ST4	0.100
Twin screw	No			ST2	0.182	ST5	0.280
PIPA	0.0030						

RIG

Forestay tension	Aft	P	12.500	E	4.460
Inner stay	None Fitted	IG	13.010	J	3.640
Carbon mast	No	ISP	13.090	BAS	1.560
Headsail furler	No	MDT1	0.115	FSD	0.033
Mainsail furler	No	MDL1	0.170	SFJ	0.000
Articulated bowsprit	No	MDT2	0.115	SPL	3.610
Non-circular rigging	No	MDL2	0.138	TPS	
Fiber rigging	No	TL	1.000	BD	0.130
Runners/Checkstays	0	MW	0.170	MWT	128.00
Spreaders	2	GO	0.190	MCG	4.320

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.172	SAFP	9.530	W1	60.2	PD1	202.0	WD	10.360
Flotation Date	08/05/2021	FFM	1.291	FAM	1.036	W2	60.2	PD2	203.0	PLM	9000.00
Measurer		FF	1.298	FA	1.040	W3	60.2	PD3	203.0	GSA	12.6
Comment		LCFcl	5.384	LCFsh	5.623	W4	60.2	PD4	203.0	RSA	4298.7
		SG	1.0050	HBI	1.161						

MEASUREMENT INVENTORY

Id	Tank Type	Capacity	LCG	VCG	Condition	Description
1	Fuel PVC	90.0	7.77			
2	Water PVC	100.0	3.96			
Id	Item Description	Weight	LCG	VCG		
1	Battery 60Ah		3.82			
2	Battery 70Ah		3.72			



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
5	0.31	1.03	1.73	2.86	3.71	33.41				Unknown	P12,50;E4,46

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
0	0.11	0.61	1.13	2.10	2.96	3.76	12.96	Yes	No		26.11		01/06/2021		Unknown	MEDIUM
7a	0.11	0.60	1.11	2.05	2.93	3.72	12.85	Yes	No		25.52		22/06/2016	NS	Unknown	
6a	0.10	0.58	1.10	2.05	2.93	3.74	12.86	Yes	No		25.52		22/06/2016	NS	Unknown	
8a	0.11	0.57	1.07	2.01	2.90	3.75	12.78	Yes	No		25.11		22/06/2016	NS	Unknown	
0	0.10	0.57	1.09	2.02	2.88	3.70	12.61	Yes	No		24.68		01/06/2021		Unknown	LIGHT
0	0.11	0.57	1.05	1.95	2.82	3.65	12.70	Yes	No		24.31		01/06/2021		Unknown	Heavy

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Maker	Material	Comment
0	13.06	13.06	13.06	6.56	6.44	71.13		01/06/2021		Unknown	S1
5	13.08	13.08	13.08	6.55	6.39	71.05		27/06/2015		Unknown	
6	13.03	13.03	13.03	6.53	6.55	70.95		27/06/2015		Unknown	
0	12.97	12.98	12.98	6.57	6.37	70.61		01/06/2021		Unknown	S2
0	13.08	13.08	13.08	6.28	6.56	69.06		01/06/2021		Unknown	S3