

GPH = **628.1** CDL = **9.179**

BOAT

Class **First 36.7**
Designer **B.Farr**
Builder **Beneteau S.A.**
Age Date **05/2006**
Series Date **01/2001**
Offset File **FIRST367-EST407.off**

HULL

Length Overall **10.640 m**
Maximum Beam **3.458 m**
Draft **2.226 m**
Displacement **5,609 kg**
DLR **6.5614**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.155%**
Age Allowance **0.487%**

PROPELLER

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

CREW

Maximum weight **710 kg**
Minimum weight **533 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	36.21	36.80
Headsail Luffed	35.67	35.67
Headsail Flying		
Symmetric	87.95	87.95
Asymmetric		

SAIL LIMITATIONS

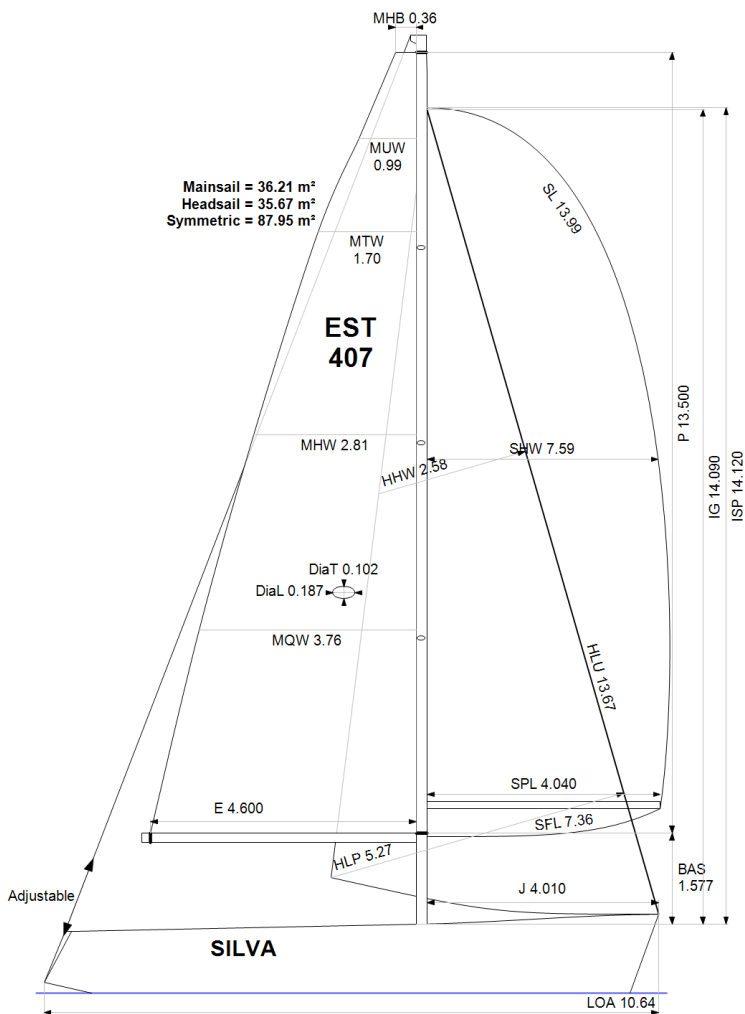
Headsails **5**
Spinnakers **4**

STABILITY

Righting Moment **131.0 kg·m**
Stability Index **115.0**

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	42.2°	40.9°	40.3°	38.6°	38.3°	38.3°	38.3°
Beat VMG	3.45	4.14	4.70	5.05	5.17	5.22	5.22
52°	5.24	6.18	6.81	7.11	7.23	7.28	7.30
60°	5.53	6.46	6.99	7.27	7.42	7.48	7.52
75°	5.76	6.67	7.13	7.41	7.63	7.80	7.94
90°	5.69	6.66	7.22	7.49	7.70	7.97	8.40
110°	5.59	6.73	7.31	7.69	8.07	8.35	8.73
120°	5.43	6.58	7.22	7.62	8.03	8.45	9.13
135°	4.92	6.03	6.89	7.36	7.73	8.14	9.02
150°	4.16	5.22	6.17	6.91	7.34	7.69	8.46
Run VMG	3.60	4.52	5.34	6.07	6.70	7.19	7.88
Gybe Angles	145.0°	150.0°	151.0°	157.0°	174.0°	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	1044.1	870.0	766.0	713.0	696.0	689.3	689.4
52°	686.7	582.3	528.5	506.2	497.8	494.3	493.2
60°	650.8	557.0	515.0	495.5	485.4	481.2	478.8
75°	625.3	539.9	505.2	486.1	471.8	461.4	453.6
90°	633.0	540.9	498.7	480.5	467.4	451.7	428.7
110°	643.6	534.8	492.7	468.1	446.3	431.1	412.3
120°	662.7	547.0	498.4	472.4	448.6	426.0	394.5
135°	731.5	596.6	522.4	489.5	466.0	442.5	399.0
150°	865.8	689.1	583.8	520.7	490.3	468.4	425.6
Run VMG	999.7	795.7	673.5	592.7	536.9	500.6	457.1
Selected Courses							
Windward / Leeward	1021.9	832.8	719.8	652.8	616.5	595.0	573.2
All purpose	787.7	652.0	578.8	539.2	517.3	501.0	481.7

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	685.6	0.8751
All purpose	559.7	1.0719

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	609.6	0.9842
Triple Number Coastal/Long Distance Low	719.9	0.8335
Triple Number Coastal/Long Distance Medium	556.3	1.0785
Triple Number Coastal/Long Distance High	497.8	1.2052
Triple Number Windward/Leeward Low	927.4	0.6470
Triple Number Windward/Leeward Medium	681.0	0.8810
Triple Number Windward/Leeward High	592.2	1.0132

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1019.7	783.0	650.5	574.1	536.5	507.4	461.3



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	First 36.7	LOA	10.640	VCGD	0.136
Measurement	02/04/2019	Max. Beam	3.458	VCGM	0.125
Measurer		Draft	2.226	RM Measured (kg·m)	131.0
HIN		Displacement	5.609	RM Default (kg·m)	137.7
Plan review		Wetted area	25.04	Limit of positive stability(°)	113.1
Hull construction	Solid	IMS L	9.597	Stability Index	115.0
Carbon Rudder	No	LSM0	9.491		
Light stanchions		Acc. length	10.640		
Trim tab	No	Sink (kg/mm)	19.31		

PROPELLER

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

RIG

Forestay tension	Aft	P	13.500	E	4.600
Inner stay	None Fitted	IG	14.090	J	4.010
Carbon mast	No	ISP	14.120	BAS	1.577
Headsail furler	No	MDT1	0.102	FSD	0.033
Mainsail furler	No	MDL1	0.187	SFJ	0.000
Articulated bowsprit	No	MDT2	0.102	SPL	4.040
Non-circular rigging	No	MDL2	0.174	TPS	
Fiber rigging	No	TL	0.370	BD	0.160
Runners/Checkstays	0	MW	0.187	MWT	149.00
Spreaders	3	GO	0.206	MCG	5.100

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.367	SAFP	10.162	W1	76.2	PD1	518.2	WD	11.300
Flotation Date	14/06/2021	FFM	1.350	FAM	1.044	W2	76.2	PD2	517.5	PLM	9000.00
Measurer		FF	1.357	FA	1.054	W3	76.2	PD3	518.0	GSA	1.0
Comment		LCFcl	5.903	LCFsh	6.123	W4	76.2	PD4	517.3	RSA	1.0
		SG	1.0000	HBI	1.189						

MEASUREMENT INVENTORY

Id	Tank	Type	Capacity	LCG	VCG	Condition	Description
1	Water	plastic	150.0	4.75			Fresh Water, stb.
2	Water	plastic	150.0	4.75			Fresh Water, ports.
3	Fuel	plastic	75.0	8.80			20.0 Fuel Tank
Id	Item	Description	Weight	LCG	VCG		
1	Battery	2x100 Ah under engine cover		6.90			
2	Battery	100 Ah, stb		7.90			
1	Miscellaneous	Boiler Quick Nautic, ports		8.00			
2	Miscellaneous	Heater Eberspracher		10.00			



International
Certificate
2021

Boat
SILVA
EST 407

Offshore
Racing
Congress

Certificate number: 230/21



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
4a	0.36	0.99	1.70	2.81	3.76	36.21		14/04/2018	OneSails	Unknown	

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
4b	0.09	0.67	1.30	2.58	3.88	5.27	13.67	No	No		35.67		14/04/2018	North	Unknown	Light-Medium
8	0.09	0.67	1.31	2.59	3.88	5.23	13.55	No	No		35.33		18/06/2021	North	Unknown	
6a	0.10	0.63	1.22	2.48	3.83	5.29	13.71	No	No		35.12		14/04/2018	North	Unknown	Heavy
7a	0.10	0.56	1.05	2.05	3.06	4.02	13.83	No	No		28.34		14/04/2018		Unknown	G3

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Maker	Material	Comment
1	13.99	13.99	13.99	7.59	7.36	87.95		20/06/2006		Unknown	kollane
8	13.93	13.93	13.93	7.61	7.39	87.83		02/04/2019	North	Unknown	
7	13.75	13.75	13.75	7.70	7.22	87.13		14/04/2018		Unknown	S-1
5	13.92	13.92	13.92	7.55	7.27	86.93		28/05/2013		Unknown	S-2
3	13.80	13.80	13.80	6.50	7.06	76.04				Unknown	sinine