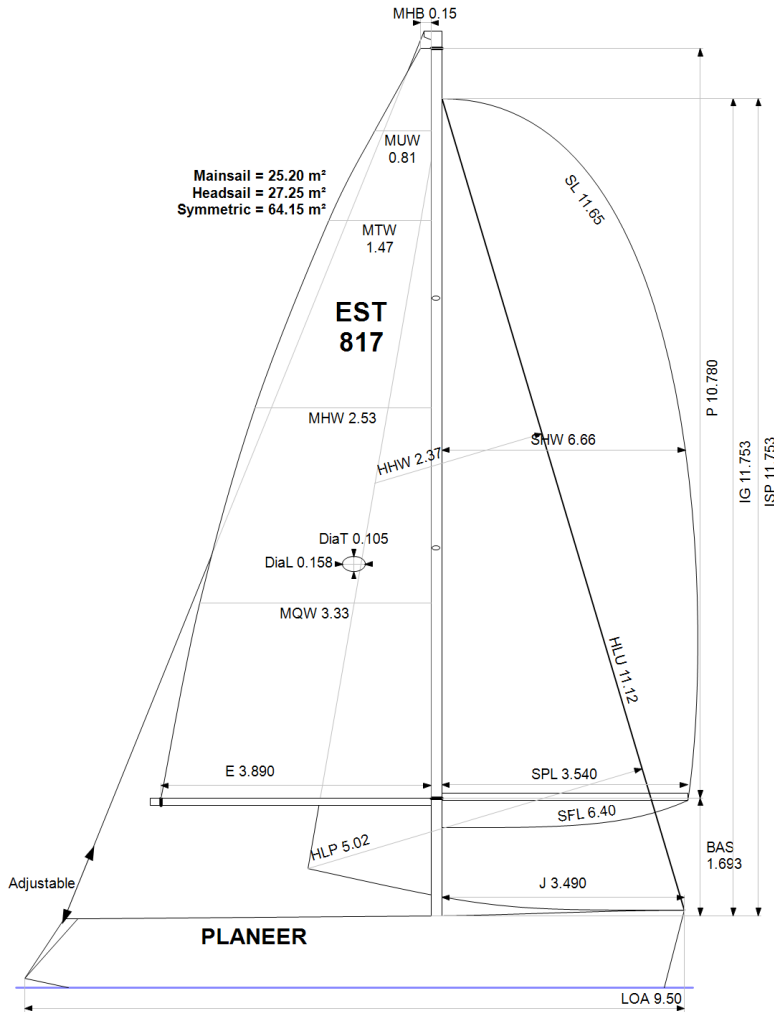


GPH = **669.7** CDL = **8.305**



BOAT

Class **FIRST 31.7LR**
Designer
Builder **Beneteau**
Age Date **01/2008**
Series Date **09/1998**
Offset File **FIRST317.off**

HULL

Length Overall **9.500 m**
Maximum Beam **3.212 m**
Draft **1.950 m**
Displacement **3,887 kg**
DLR **5.5660**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.317%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.405m**

CREW

Maximum weight **550 kg**
Minimum weight **413 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	25.20	25.76
Headsail Luffed	27.25	27.25
Headsail Flying		
Symmetric	64.15	64.15
Asymmetric		

SAIL LIMITATIONS

Headsails **5 * Woven polyester sails**
Spinnakers **4**

STABILITY

Righting Moment **78.0 kg·m**
Stability Index **N/A**

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°	41.3°	40.9°	39.4°	38.3°	38.1°	38.6°
Beat VMG	3.14	3.80	4.32	4.72	4.89	4.95	4.92
52°	4.82	5.72	6.37	6.72	6.89	6.95	6.97
60°	5.10	6.02	6.58	6.88	7.06	7.15	7.20
75°	5.31	6.25	6.75	7.03	7.26	7.45	7.64
90°	5.24	6.23	6.85	7.17	7.33	7.59	8.06
110°	5.22	6.35	6.95	7.33	7.71	8.07	8.48
120°	5.07	6.18	6.87	7.26	7.66	8.10	8.92
135°	4.58	5.64	6.52	7.00	7.37	7.79	8.72
150°	3.84	4.88	5.80	6.56	7.00	7.34	8.12
Run VMG	3.33	4.23	5.03	5.76	6.38	6.86	7.54
Gybe Angles	146.0°	150.0°	151.0°	157.0°	175.0°	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	1147.4	947.1	833.0	762.8	736.1	726.9	731.1
52°	747.7	629.0	565.2	535.6	522.6	517.9	516.3
60°	706.4	597.9	546.8	522.9	509.7	503.5	500.3
75°	677.9	575.7	533.4	512.0	496.0	483.2	471.4
90°	686.8	578.2	525.4	502.3	491.3	474.3	446.6
110°	689.3	567.3	518.1	491.3	466.8	446.3	424.5
120°	710.8	582.1	524.3	495.7	469.8	444.5	403.5
135°	786.5	638.2	552.0	513.9	488.4	462.4	413.0
150°	936.3	737.3	620.4	548.4	514.3	490.5	443.1
Run VMG	1081.1	851.4	715.9	625.3	564.6	524.8	477.5
Selected Courses							
Windward / Leeward	1114.3	899.2	774.5	694.1	650.3	625.8	604.3
All purpose	855.5	700.9	617.7	570.1	544.1	525.2	503.8

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	731.6	0.8201
All purpose	594.0	1.0102

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	648.1	0.9258
Triple Number Coastal/Long Distance Low	778.2	0.7710
Triple Number Coastal/Long Distance Medium	590.4	1.0163
Triple Number Coastal/Long Distance High	521.9	1.1497
Triple Number Windward/Leeward Low	1006.7	0.5960
Triple Number Windward/Leeward Medium	727.0	0.8253
Triple Number Windward/Leeward High	623.9	0.9617

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1111.0	844.2	697.0	607.9	564.6	532.2	480.4