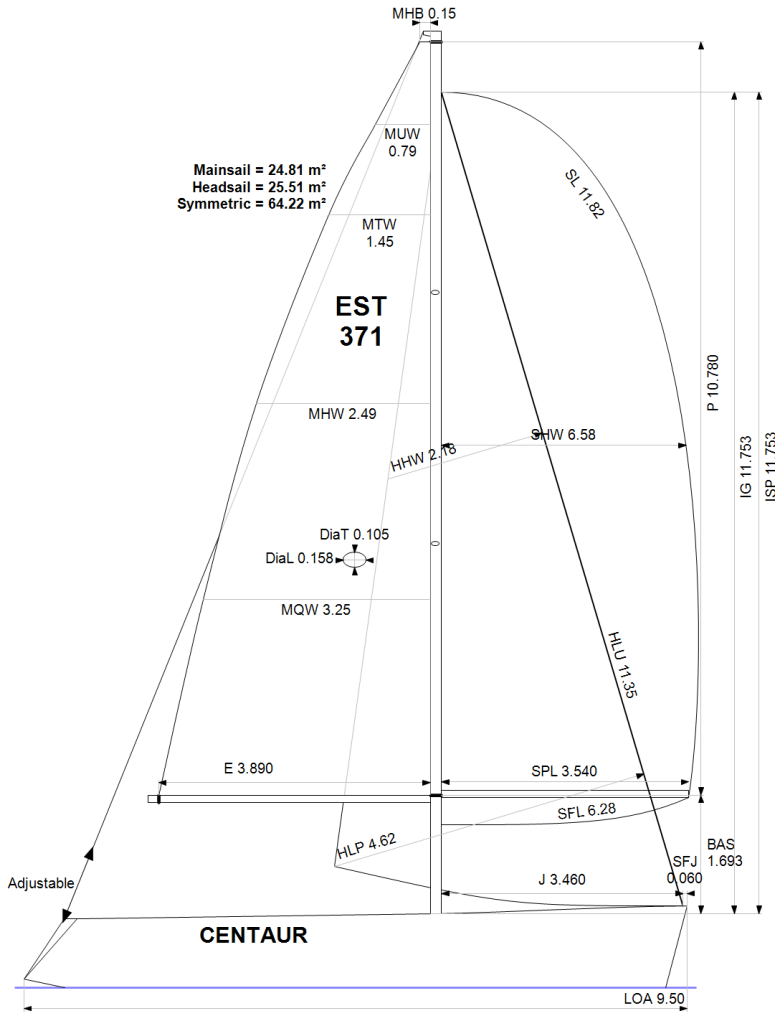


GPH = 667.8 **CDL = 8.313**



BOAT

Class **FIRST 31.7LR**
Designer **FINOT**
Builder **Beneteau**
Age Date **01/2005**
Series Date **09/1998**
Offset File **first317.off**

HULL

Length Overall **9.500 m**
Maximum Beam **3.212 m**
Draft **1.927 m**
Displacement **3,651 kg**
DLR **5.2493**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.299%**
Age Allowance **0.487%**

PROPELLER

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

CREW

Maximum weight **579 kg**
Minimum weight **434 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	24.81	25.32
Headsail Luffed	25.51	25.51
Headsail Flying		
Symmetric	64.22	64.22
Asymmetric		

SAIL LIMITATIONS

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

STABILITY

Righting Moment **71.8 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°	40.5°	39.2°	38.3°	38.3°	39.0°
Beat VMG	3.14	3.81	4.33	4.73	4.89	4.94	4.89
52°	4.82	5.74	6.38	6.73	6.89	6.94	6.96
60°	5.10	6.03	6.59	6.89	7.07	7.15	7.19
75°	5.30	6.26	6.75	7.04	7.27	7.47	7.65
90°	5.23	6.27	6.88	7.18	7.35	7.62	8.11
110°	5.25	6.38	6.98	7.37	7.78	8.14	8.57
120°	5.09	6.22	6.89	7.30	7.73	8.20	9.06
135°	4.60	5.68	6.55	7.03	7.42	7.86	8.88
150°	3.86	4.90	5.83	6.59	7.03	7.38	8.22
Run VMG	3.34	4.25	5.05	5.78	6.40	6.88	7.59
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	1145.9	944.3	830.7	761.6	736.9	728.9	736.1
52°	747.1	627.3	564.6	535.2	522.7	518.4	517.4
60°	706.3	596.7	546.3	522.5	509.3	503.5	500.9
75°	678.8	575.2	533.0	511.4	495.0	481.7	470.5
90°	688.7	574.6	523.6	501.1	490.1	472.3	443.6
110°	685.4	564.1	516.0	488.5	462.8	442.4	419.9
120°	706.9	578.9	522.1	493.0	465.5	439.2	397.4
135°	782.8	634.3	549.5	511.9	485.2	457.8	405.4
150°	932.9	734.2	617.3	546.1	512.3	487.6	437.9
Run VMG	1077.2	847.7	712.3	622.5	562.4	523.0	474.1
Selected Courses							
Windward / Leeward	1111.6	896.0	771.5	692.0	649.7	625.9	605.1
All purpose	853.7	698.1	615.7	568.5	542.7	523.8	502.3

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	729.9	0.8221
All purpose	592.2	1.0131

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	646.0	0.9288
Triple Number Coastal/Long Distance Low	775.9	0.7733
Triple Number Coastal/Long Distance Medium	588.6	1.0194
Triple Number Coastal/Long Distance High	520.5	1.1528
Triple Number Windward/Leeward Low	1003.8	0.5977
Triple Number Windward/Leeward Medium	724.9	0.8277
Triple Number Windward/Leeward High	624.0	0.9615

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1108.1	841.0	694.5	606.2	563.2	530.6	478.1