

GPH = 710.4 CDL = 7.990

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 **0.327%**
Age Allowance **0.487%**

PROPELLER

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

CREW

Maximum weight **200 kg**
Minimum weight **120 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		
Asymmetric		

SAIL LIMITATIONS

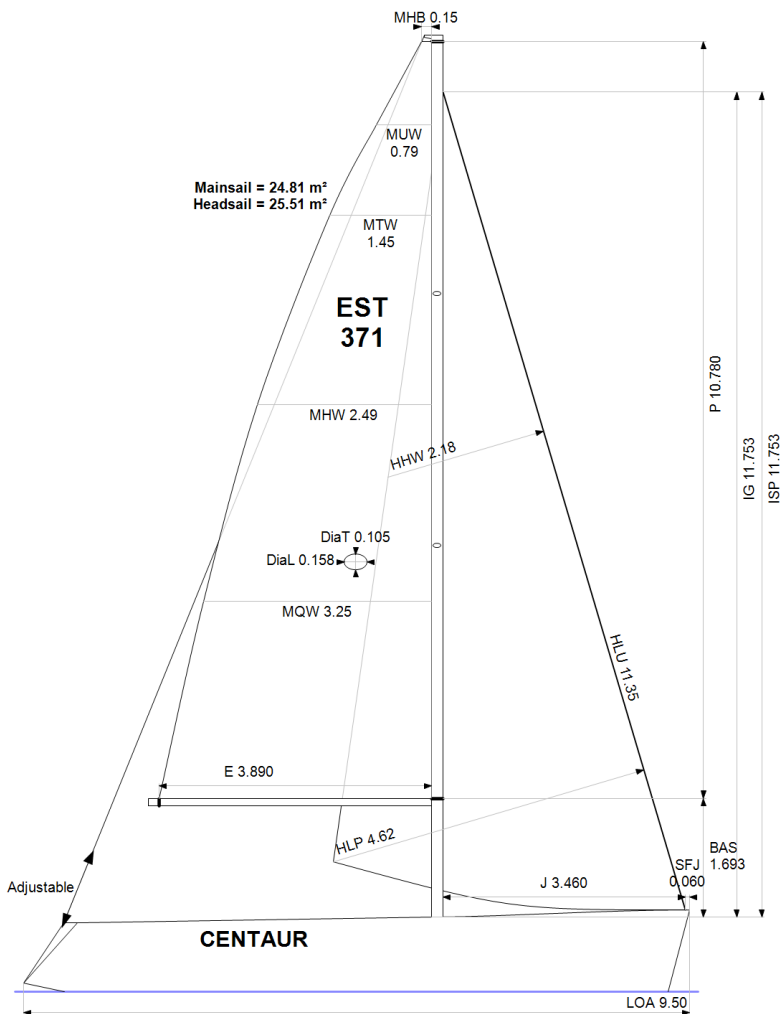
Headsails **5**
Spinnakers **0 * Spinnaker pole aboard**

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°	40.1°	39.8°	40.1°	40.9°
Beat VMG	3.13	3.80	4.28	4.52	4.60	4.61	4.57
52°	4.77	5.67	6.31	6.59	6.67	6.70	6.70
60°	5.04	5.94	6.53	6.79	6.89	6.93	6.92
75°	5.25	6.17	6.70	6.98	7.15	7.25	7.30
90°	5.20	6.15	6.72	7.04	7.28	7.50	7.81
110°	4.72	5.76	6.53	6.94	7.24	7.56	8.22
120°	4.43	5.43	6.26	6.79	7.12	7.43	8.14
135°	3.82	4.84	5.69	6.41	6.86	7.17	7.84
150°	3.27	4.26	5.11	5.86	6.49	6.90	7.52
Run VMG	2.84	3.73	4.54	5.26	5.93	6.50	7.19
Gybe Angles	155.0°	162.0°	168.0°	172.0°	174.0°	178.0°	179.5°



Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1149.4	948.2	841.7	795.7	782.4	780.7	787.4
52°	754.7	634.9	570.9	546.7	539.7	537.6	537.6
60°	715.0	605.7	551.2	530.1	522.7	519.8	520.1
75°	685.1	583.5	537.1	515.9	503.2	496.5	493.0
90°	691.8	585.8	535.6	511.7	494.7	480.0	461.2
110°	762.7	624.8	551.2	518.4	497.0	476.5	438.0
120°	812.8	662.5	575.0	530.1	505.5	484.5	442.3
135°	942.8	743.9	632.6	561.9	524.8	501.8	459.2
150°	1100.2	845.2	704.4	614.0	554.4	521.5	478.8
Run VMG	1268.4	966.1	793.8	683.8	606.6	553.8	500.9
Selected Courses							
Windward / Leeward	1208.9	957.2	817.8	739.8	694.5	667.2	644.2
All purpose	920.6	745.4	651.1	601.2	573.7	557.0	535.6

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	779.5	0.7697
All purpose	628.4	0.9549

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	687.6	0.8726
Triple Number Coastal/Long Distance Low	833.0	0.7203
Triple Number Coastal/Long Distance Medium	623.0	0.9631
Triple Number Coastal/Long Distance High	553.1	1.0848
Triple Number Windward/Leeward Low	1083.0	0.5540
Triple Number Windward/Leeward Medium	772.6	0.7766
Triple Number Windward/Leeward High	665.4	0.9017

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1214.8	900.7	736.1	643.6	596.3	562.6	509.6