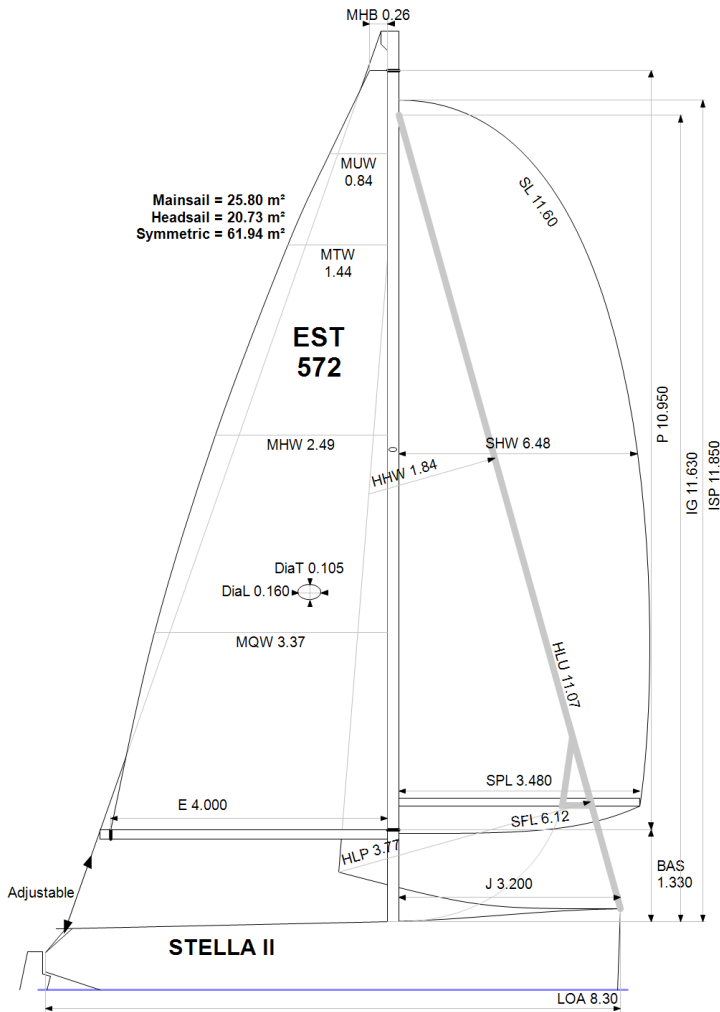


GPH = **694.8** CDL = **7.731**



BOAT

Class **First 27.7**
Designer **Gruop Finot**
Builder **Beneteau**
Age Date **06/2009**
Series Date **09/2002**
Offset File **F27_7jl.OFF**

HULL

Length Overall **8.300 m**
Maximum Beam **3.026 m**
Draft **2.151 m**
Displacement **3,175 kg**
DLR **4.7456**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.235%**
Age Allowance **0.487%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.380m**

CREW

Maximum weight **440 kg**
Minimum weight **330 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	25.80	26.31
Headsail Luffed	20.73	20.73
Headsail Flying		
Symmetric	61.94	61.94
Asymmetric		

SAIL LIMITATIONS

Headsails **1**
Spinnakers **4**

STABILITY

Righting Moment **83.2 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	43.1°	41.3°	40.5°	39.0°	37.9°	37.5°	38.1°
Beat VMG	2.96	3.61	4.12	4.54	4.74	4.80	4.77
52°	4.53	5.40	6.07	6.44	6.61	6.68	6.70
60°	4.78	5.67	6.27	6.58	6.77	6.87	6.91
75°	4.97	5.89	6.42	6.71	6.94	7.15	7.35
90°	5.04	6.08	6.64	6.90	7.03	7.26	7.77
110°	5.10	6.17	6.71	7.09	7.49	7.79	8.17
120°	4.94	6.02	6.63	7.02	7.44	7.89	8.61
135°	4.46	5.50	6.33	6.77	7.14	7.57	8.56
150°	3.77	4.79	5.68	6.38	6.77	7.12	7.94
Run VMG	3.26	4.15	4.93	5.63	6.25	6.67	7.35
Gybe Angles	146.0°	150.5°	152.0°	159.0°	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	1214.8	997.0	873.1	792.8	759.1	749.8	754.9
52°	795.1	667.0	593.3	559.1	544.3	539.1	537.3
60°	752.9	634.9	574.1	546.7	531.6	524.1	520.7
75°	724.4	611.2	560.8	536.6	518.5	503.8	489.9
90°	714.7	592.1	542.4	521.8	512.4	495.6	463.5
110°	706.2	583.6	536.2	507.4	480.6	462.4	440.6
120°	729.4	597.6	542.6	512.7	483.6	456.0	418.2
135°	808.0	654.9	568.8	532.0	504.2	475.3	420.6
150°	956.2	751.2	633.9	564.0	531.5	505.8	453.5
Run VMG	1104.1	867.5	730.5	639.2	576.4	539.9	489.7
Selected Courses							
Windward / Leeward	1159.4	932.2	801.8	716.0	667.8	644.9	622.3
All purpose	892.0	728.0	641.2	590.8	561.0	543.3	520.3

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	755.5	0.7942
All purpose	615.4	0.9749

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	670.9	0.8943
Triple Number Coastal/Long Distance Low	810.0	0.7407
Triple Number Coastal/Long Distance Medium	611.6	0.9811
Triple Number Coastal/Long Distance High	539.1	1.1130
Triple Number Windward/Leeward Low	1045.8	0.5737
Triple Number Windward/Leeward Medium	750.6	0.7994
Triple Number Windward/Leeward High	642.1	0.9344

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1153.9	874.6	722.2	629.4	583.3	550.2	497.2