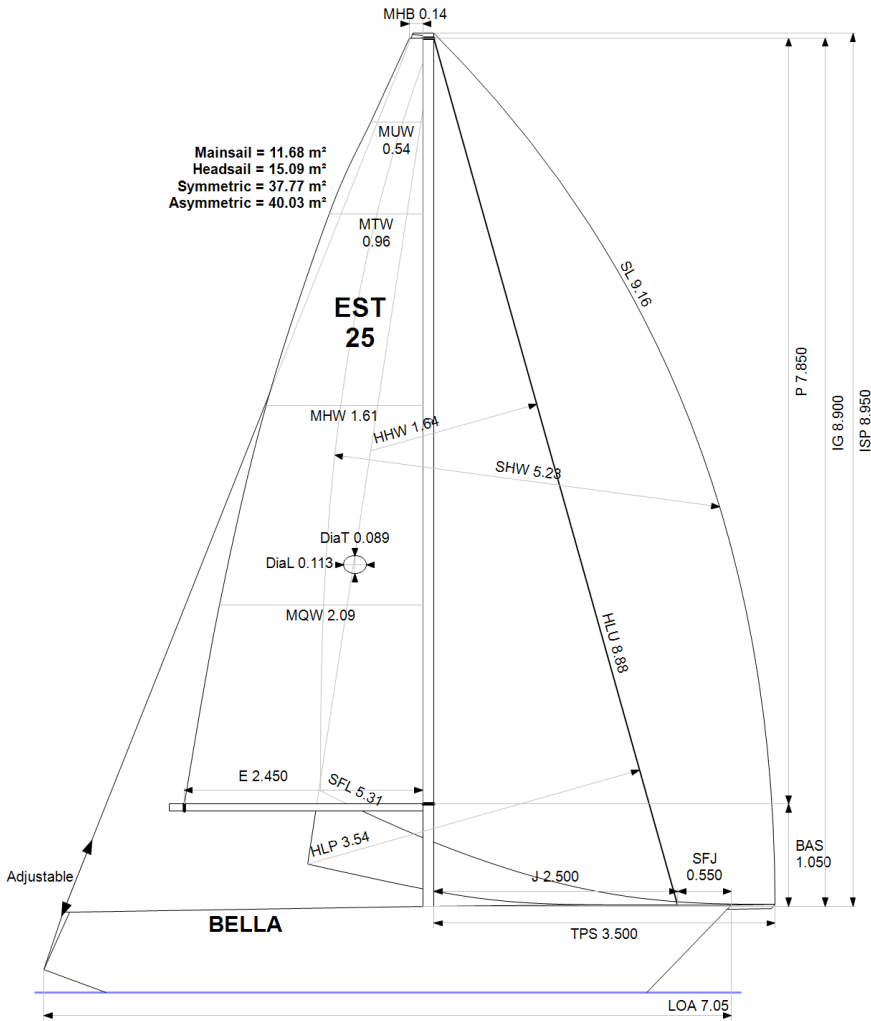


GPH = **801.1** CDL = **5.354**



**BOAT**

Class **BELLONA 23**  
Designer  
Builder **Rootsi**  
Age Date **01/1976**  
Series Date **01/1976**  
Offset File **BELLONA23-EST25.off**

**HULL**

Length Overall **7.050 m**  
Maximum Beam **2.496 m**  
Draft **1.309 m**  
Displacement **1,835 kg**  
DLR **10.0737**  
IMS Division **Cruiser/Racer**  
Dynamic Allowance **0.520%**  
Age Allowance **0.487%**

**PROPELLER**

Installation **Strut**  
Type **Folding 2 blades**  
Diameter **0.330m**

**CREW**

Maximum weight **400 kg**  
Minimum weight **300 kg \* when applied**  
Non Manual Power **No**  
Crew Arm Extension

**SAIL AREAS (m²)**

	Measured	Rated
Mainsail	<b>11.68</b>	<b>11.88</b>
Headsail Luffed	<b>15.09</b>	<b>15.09</b>
Headsail Flying		
Symmetric	<b>37.77</b>	<b>37.77</b>
Asymmetric	<b>40.02</b>	<b>40.02</b>

\* All asymmetric spinnakers with SHW/SFL > 85%

**SAIL LIMITATIONS**

Headsails **5**  
Spinnakers **4** \* Asymmetric SHALL NOT be tacked on the pole

**STABILITY**

Righting Moment **21.2 kg·m**  
Stability Index **120.8**

**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°	41.6°	42.8°	40.5°	39.8°	39.8°	40.5°
Beat VMG	2.61	3.09	3.48	3.78	3.94	3.99	3.97
52°	3.97	4.70	5.21	5.45	5.59	5.67	5.71
60°	4.18	4.94	5.38	5.59	5.73	5.84	5.92
75°	4.33	5.10	5.50	5.71	5.89	6.05	6.29
90°	4.49	5.36	5.73	5.98	6.15	6.24	6.49
110°	4.57	5.41	5.79	6.10	6.41	6.66	6.94
120°	4.41	5.31	5.72	6.03	6.36	6.66	7.12
135°	4.03	4.93	5.53	5.84	6.14	6.44	6.98
150°	3.50	4.32	5.07	5.56	5.84	6.12	6.67
Run VMG	3.03	3.74	4.43	5.05	5.51	5.79	6.32
Gybe Angles	146.8°	153.0°	154.0°	174.0°	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	1377.2	1164.7	1033.3	951.6	913.5	902.3	907.5
52°	905.8	766.7	690.6	660.8	644.3	634.9	630.9
60°	860.9	728.1	668.9	644.6	628.3	616.4	607.6
75°	831.3	705.3	654.9	630.2	611.7	595.0	572.4
90°	802.2	671.9	628.4	602.3	585.8	576.9	554.6
110°	787.3	665.5	622.2	590.2	561.9	540.9	518.9
120°	817.2	677.6	629.1	596.6	565.7	540.1	505.8
135°	893.3	729.8	651.1	616.2	586.3	558.6	515.5
150°	1028.0	833.0	709.6	647.2	616.1	588.5	539.3
Run VMG	1187.0	961.4	813.3	712.7	653.8	621.9	569.7
Selected Courses							
Windward / Leeward	1282.1	1063.1	923.3	832.2	783.7	762.1	738.6
All purpose	995.5	830.4	741.8	690.3	658.8	641.0	619.1

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	874.6	0.6860
All purpose	715.1	0.8391

### Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	779.1	0.7701
Triple Number Coastal/Long Distance Low	913.0	0.6572
Triple Number Coastal/Long Distance Medium	711.2	0.8436
Triple Number Coastal/Long Distance High	637.3	0.9415
Triple Number Windward/Leeward Low	1172.6	0.5117
Triple Number Windward/Leeward Medium	869.7	0.6899
Triple Number Windward/Leeward High	758.7	0.7908

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1272.6	996.0	833.2	735.9	684.7	648.8	590.9