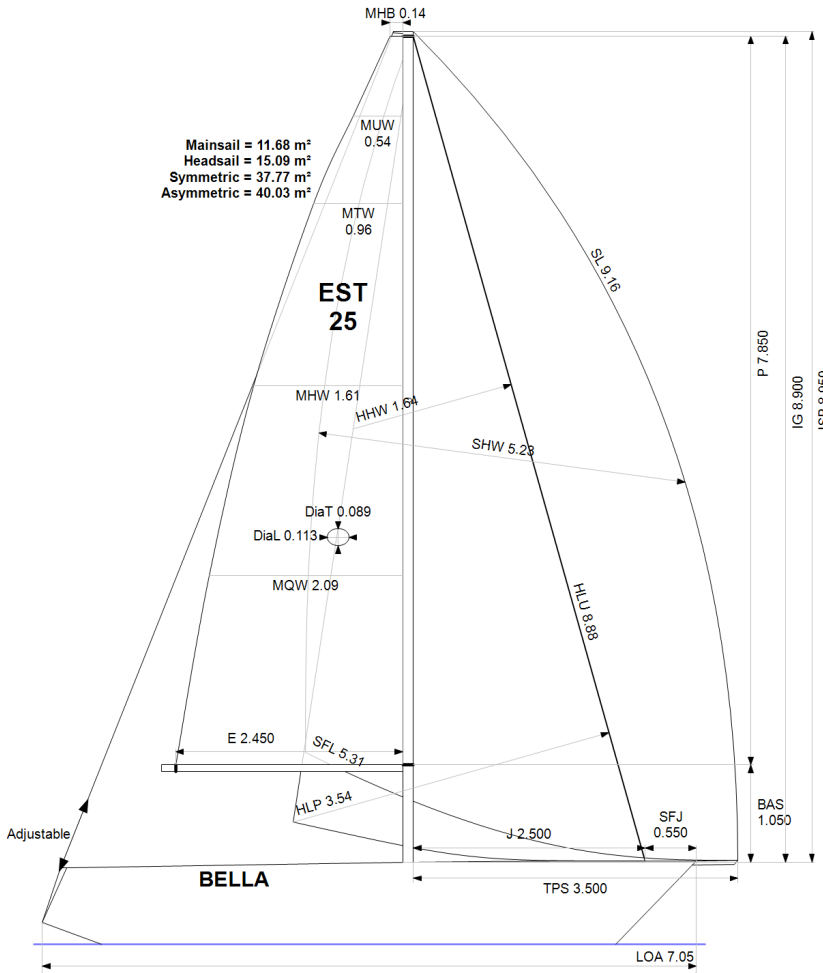


**GPH = 820.0** **CDL = 5.029**



**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 **0.527%**  
Age Allowance **0.487%**

**PROPELLER**

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

**CREW**

Maximum weight **120 kg**  
Minimum weight **120 kg** \* when applied  
Non Manual Power **No**  
Crew Arm Extension

**SAIL AREAS (m<sup>2</sup>)**

	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	42.4°	40.5°	42.0°	43.1°	43.7°	44.3°	46.1°
Beat VMG	2.61	3.07	3.35	3.52	3.58	3.58	3.46
52°	3.94	4.58	5.05	5.28	5.38	5.41	5.36
60°	4.14	4.83	5.26	5.46	5.58	5.63	5.62
75°	4.30	5.03	5.43	5.63	5.78	5.89	6.00
90°	4.44	5.26	5.62	5.74	5.87	6.04	6.31
110°	4.55	5.37	5.74	6.02	6.23	6.36	6.56
120°	4.40	5.30	5.70	6.00	6.30	6.56	6.81
135°	4.03	4.93	5.53	5.84	6.13	6.43	6.91
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	5.50	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								Single Number Scoring Options		
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt	Course	Time On Distance	Time On Time
Beat VMG	1377.2	1174.5	1074.4	1021.4	1006.7	1005.7	1041.4	Windward / Leeward	907.5	0.6611
52°	913.5	785.5	713.2	681.9	669.0	665.2	671.7			
60°	870.2	745.9	684.6	658.9	645.6	639.6	640.4	All purpose	736.7	0.8144
75°	836.9	715.2	663.6	639.4	623.1	610.8	599.9			
90°	811.5	684.3	640.4	627.1	613.3	596.3	570.8			
110°	790.7	669.8	627.1	598.4	577.9	566.0	548.6			
120°	818.1	679.6	631.1	600.1	571.9	549.2	528.9			
135°	893.2	729.8	651.4	616.5	587.1	560.1	520.6			
150°	1027.9	832.9	709.6	647.3	616.1	588.6	539.7			
Run VMG	1187.0	961.5	813.2	712.7	654.0	622.0	569.9			
Selected Courses										
Windward / Leeward	1282.1	1068.0	943.8	867.0	830.4	813.8	805.7			
All purpose	998.4	837.4	756.1	712.5	688.0	673.8	662.4			

### Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	801.1	0.7490
Triple Number Coastal/Long Distance Low	917.9	0.6537
Triple Number Coastal/Long Distance Medium	731.4	0.8204
Triple Number Coastal/Long Distance High	673.1	0.8914
Triple Number Windward/Leeward Low	1175.1	0.5106
Triple Number Windward/Leeward Medium	900.2	0.6665
Triple Number Windward/Leeward High	814.9	0.7363

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1272.6	1001.5	850.2	762.0	715.6	678.8	621.6

