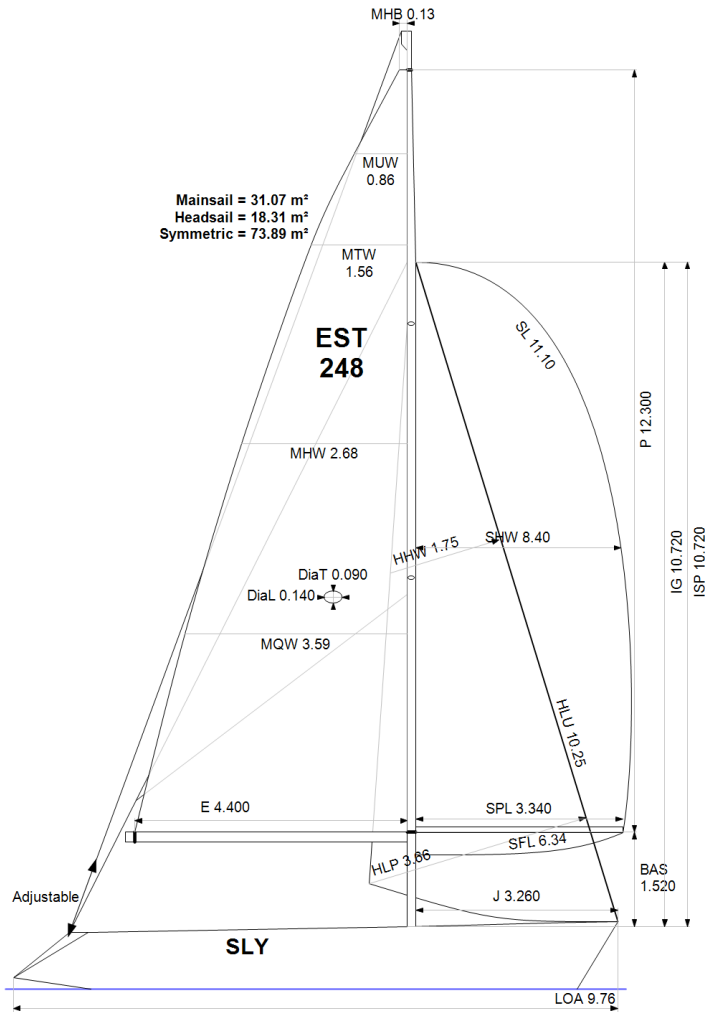


GPH = **659.6** CDL = **7.964**



Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.0°	40.9°	40.5°	38.6°	38.3°	38.3°	38.6°
Beat VMG	3.21	3.87	4.40	4.71	4.82	4.86	4.89
52°	4.89	5.79	6.38	6.66	6.77	6.82	6.85
60°	5.15	6.06	6.56	6.82	6.96	7.02	7.06
75°	5.35	6.27	6.70	6.97	7.19	7.36	7.51
90°	5.51	6.49	6.90	7.08	7.27	7.54	7.94
110°	5.56	6.57	7.04	7.43	7.75	7.96	8.32
120°	5.35	6.46	6.97	7.39	7.82	8.23	8.73
135°	4.72	5.91	6.70	7.10	7.53	7.98	8.99
150°	4.01	5.04	6.03	6.71	7.09	7.48	8.33
Run VMG	3.47	4.37	5.22	5.96	6.55	6.95	7.70
Gybe Angles	146.0°	150.0°	150.0°	159.9°	180.0°	180.0°	180.0°

BOAT

Class **Mach 3**
 Designer
 Builder **Fram Boat**
 Age Date **01/1981**
 Series Date **01/1981**
 Offset File **EST248_CL.off**

HULL

Length Overall **9.764 m**
 Maximum Beam **3.010 m**
 Draft **1.886 m**
 Displacement **3,479 kg**
 DLR **6.5289**
 IMS Division **Cruiser/Racer**
 Dynamic Allowance **0.192%**
 Age Allowance **0.487%**

PROPELLER

Installation **Shaft exposed**
 Type **Folding 2 blades**
 Diameter **0.428m**

CREW

Maximum weight **500 kg**
 Minimum weight **375 kg * when applied**
 Non Manual Power **No**
 Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	31.07	31.59
Headsail Luffed	18.31	18.31
Headsail Flying		
Symmetric	73.89	73.89
Asymmetric		

SAIL LIMITATIONS

Headsails **5 * Woven polyester sails**
 Spinnakers **4**

STABILITY

Righting Moment **62.7 kg·m**
 Stability Index **N/A**

OWNER

The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1120.7	929.7	818.6	763.9	746.9	740.6	736.3
52°	736.8	622.2	564.0	540.8	531.9	528.0	525.4
60°	698.6	594.0	548.8	528.2	517.5	512.6	509.7
75°	672.7	574.6	537.2	516.6	500.8	489.3	479.7
90°	653.9	555.0	521.4	508.1	495.3	477.6	453.6
110°	647.4	547.7	511.6	484.5	464.7	452.5	432.8
120°	672.8	557.1	516.7	487.5	460.1	437.6	412.3
135°	763.2	609.3	537.7	506.8	478.4	451.3	400.5
150°	898.8	713.9	597.1	536.3	507.6	481.3	432.0
Run VMG	1037.8	824.4	689.5	604.1	549.7	517.8	467.5
Selected Courses							
Windward / Leeward	1079.2	877.0	754.1	684.0	648.3	629.2	601.9
All purpose	828.0	682.8	607.0	566.7	543.2	528.0	505.5

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	720.4	0.8329
All purpose	587.8	1.0208

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	640.8	0.9363
Triple Number Coastal/Long Distance Low	755.4	0.7943
Triple Number Coastal/Long Distance Medium	583.9	1.0275
Triple Number Coastal/Long Distance High	523.3	1.1465
Triple Number Windward/Leeward Low	978.2	0.6134
Triple Number Windward/Leeward Medium	714.5	0.8397
Triple Number Windward/Leeward High	623.8	0.9619

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1075.1	822.6	681.5	603.4	564.6	533.7	484.8