



2020 ORC Club Certificate

Rating Office
 Estonian Yachting Union
 Purje 8, maja 3
 11911 Tallinn
 Estonia

ESTONIAN YACHTING UNION

Certificate
 Number **001/20**
 Issued On **05/06/2020**
 ORC Ref **03880000JTK**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**

Crew Weight

Default	703kg
Maximum	650kg
Minimum*	488kg

*when applied by the NoR and SI
 Non Manual Pwr **No**

Special Scoring

ToD	ToT
Non Spin GPH 696.7	0.8612
Non Spin OSN 672.2	0.8926

Sails Limitations
 Headsails **1** Spinnakers **4**

Spinnaker configuration
 Symmetric: **Yes** **86.58**
 Asymmetric: **No**
 Flying H/S: **No**
 Spin. Pole: **Yes**

Class Division Length
 CDL = **8.794**

Stability (Estimated)
 Limit Positive Stab.: **122.7°**
 Stability Index: **124.8**

BOAT Name ELLI Sail Nr EST-728		GPH 657.4	HULL Data File EST728 LOA 10.740m Offset File CLDEL37R.OFF MB 3.604m Displacement 6,251kg Draft 1.993m			
CLASS Class Delphia 37,3 Designer Delphia Yachts Builder Series 01/2000 Age Date 05/2012 Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.340% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No		IMSL 10.130m VCGD 0.000m Sink 19.54kg/mm RL 7.471m VCGM -0.018m WS 26.95m² LSM0 10.149m Displacement/Length ratio 5.9797		
COMMENTS		Water Ballast 0 Trim Tab No BLR Index 0.0000				
PROPELLER Installation Strut PRD 0.430 Type Folding 3 blades PBW 0.180 PIPA 0.0036		CENTERBOARD N/A				
SCORING OPTIONS						
Time on Distance	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	636.4			709.9		
Time on Time	0.9428			0.9509		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	769.0	579.0	505.6	998.1	719.5	603.4
Time on Time	0.8778	1.1659	1.3350	0.6763	0.9382	1.1186



2020

ORC Club Certificate Appendix

BOAT	
Name ELLI	Certificate Number 001/20
Sail Nr EST-728	Issued On 05/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1173.1	963.9	850.8	772.5	726.0	705.2	696.6
52°	755.7	634.8	564.6	525.2	506.0	495.9	490.0
60°	710.5	600.2	539.3	509.7	493.7	483.6	475.1
75°	679.6	573.6	521.6	497.9	482.8	470.6	452.4
90°	677.0	562.0	506.4	483.4	474.4	465.5	439.7
110°	665.7	547.1	497.5	473.4	453.2	435.6	417.1
120°	684.4	560.4	502.7	476.7	455.6	434.0	398.9
135°	754.3	613.8	529.9	492.7	470.5	449.2	406.2
150°	898.0	708.9	598.2	527.2	493.6	472.6	432.5
Run VMG	1037.0	818.6	690.5	603.4	546.0	505.4	463.1
Selected Courses							
Windward / Leeward	1105.0	891.2	770.6	688.0	636.0	605.3	579.8
Circular Random	919.1	736.8	637.2	578.1	541.1	517.0	488.2
Coastal / Long Distance	1098.2	834.6	689.7	597.7	549.2	515.8	465.7
Non Spinnaker	990.3	787.0	674.3	606.4	563.5	535.4	502.3

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	44.6°	42.8°	41.6°	41.3°	40.1°	39.8°	39.4°
Beat VMG	3.07	3.73	4.23	4.66	4.96	5.11	5.17
52°	4.76	5.67	6.38	6.86	7.11	7.26	7.35
60°	5.07	6.00	6.68	7.06	7.29	7.44	7.58
75°	5.30	6.28	6.90	7.23	7.46	7.65	7.96
90°	5.32	6.41	7.11	7.45	7.59	7.73	8.19
110°	5.41	6.58	7.24	7.60	7.94	8.26	8.63
120°	5.26	6.42	7.16	7.55	7.90	8.29	9.03
135°	4.77	5.87	6.79	7.31	7.65	8.01	8.86
150°	4.01	5.08	6.02	6.83	7.29	7.62	8.32
Run VMG	3.47	4.40	5.21	5.97	6.59	7.12	7.77
Gybe Angles	145.5°	150.0°	150.5°	155.0°	172.0°	180.0°	180.0°