



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**Offshore
Racing
Congress**



Certificate

Number **130/20**
Issued On **06/08/2020**
ORC Ref **0388000002**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 618kg
Maximum **665kg**
Minimum* **499kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	653.2	0.9186
Non Spin OSN	633.4	0.9473

Sails Limitations

Headsails **5** Spinnakers **4**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **Yes** 93.72
Asymmetric: **Yes** 93.02
Flying H/S: **No**
Spin. Pole: **Yes**

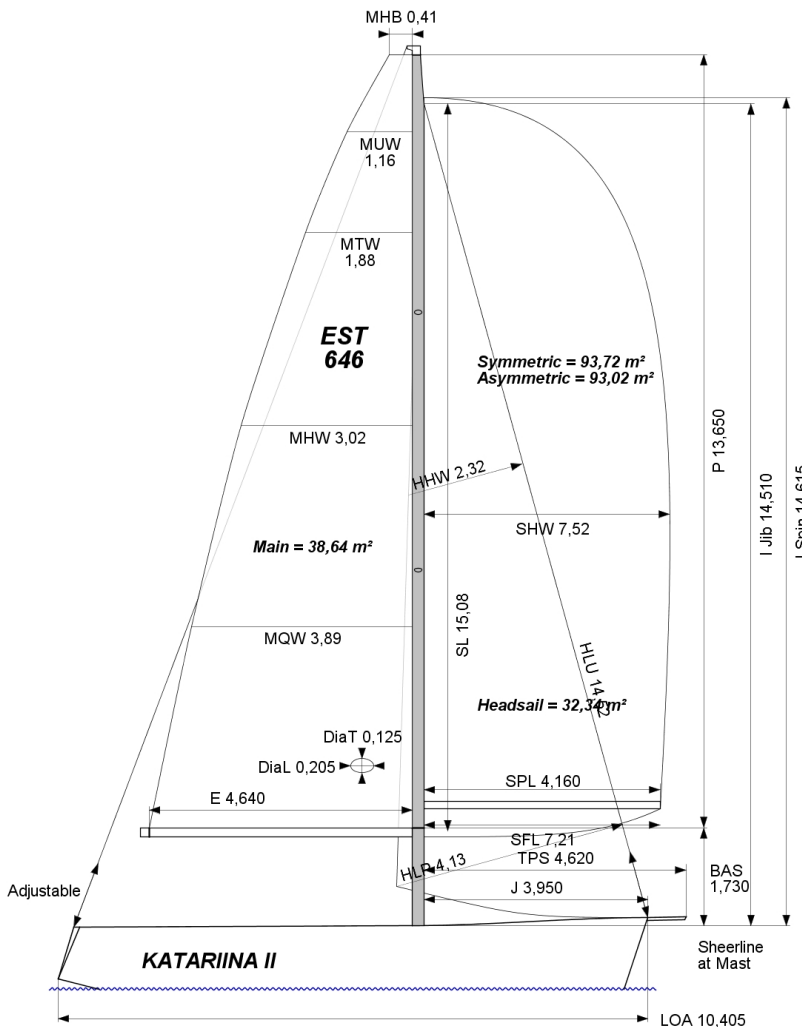
Class Division Length

CDL = 9.038

Stability (Measured)

Limit Positive Stab.: **115.8°**
Stability Index: **114.3**

Owner



BOAT		GPH	HULL			
Name KATARIINA II Sail Nr EST 646		618.2	Data File EST646	LOA 10.405m		
CLASS			Offset File EST646-	MB 3.476m		
Class ARCONA 340	Designer STEFAN QVIBERG		Displacement 4,621kg	Draft 2,113m		
Builder ARCONA YACHTS	Series 05/2009		IMS Division Cruiser/Racer	Dynamic All. 0.141%		
Age Date 05/2010	Age Allowance 0.357%		Plan Review	Construction Cored		
COMMENTS			Fiber Rigging No	Aramid Core No		
			Crew Arm Ex	Carbon Rudder No		
				Light Stanchions No		
PROPELLER			IMSL 9.398m	VCGD 0.017m		
Installation Strut	PRD 0.425		RL 8.694m	VCGM 0.023m		
Type Folding 2 blades	PBW 0.100		WS 24.98m²	LSM0 9.274m		
	PIPA 0.0033		Displacement/Length ratio 5.7934	Water Ballast 0		
				Trim Tab No		
				BLR Index 0.0000		
			CENTERBOARD			
			NA			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	600.8			671.9		
Time on Time	0.9986			1.0047		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	707.5	547.8	488.9	913.9	672.9	588.8
Time on Time	0.9541	1.2322	1.3807	0.7386	1.0031	1.1464

2020

ORC Club Certificate Appendix

BOAT			
Name	KATARIINA II	Certificate Number	130/20
Sail Nr	EST 646	Issued On	06/08/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1044.7	860.6	756.1	716.1	702.9	698.5	687.9
52°	681.8	574.6	522.2	503.2	497.2	494.5	487.7
60°	644.0	550.4	508.9	490.5	482.9	479.3	473.0
75°	616.4	533.7	499.3	478.3	462.6	454.0	447.9
90°	623.4	525.4	488.2	471.6	456.0	437.7	416.7
110°	620.3	520.9	482.4	453.4	428.6	413.9	390.8
120°	640.5	532.9	489.3	459.0	430.4	404.0	367.3
135°	712.8	579.0	511.8	479.3	450.9	423.9	368.5
150°	844.7	671.2	568.1	510.5	480.7	454.3	404.6
Run VMG	975.4	775.0	655.3	579.1	526.5	492.2	442.1
Selected Courses							
Windward / Leeward	1010.1	817.8	705.7	647.6	614.7	595.3	565.0
Circular Random	850.0	686.8	599.8	549.6	518.7	498.0	469.8
Coastal / Long Distance	1006.6	768.2	638.1	567.9	530.5	499.4	446.9
Non Spinnaker	912.6	731.0	632.8	575.4	540.1	516.9	486.8

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	43.1°	41.3°	40.1°	38.6°	39.0°	39.0°	39.0°
Beat VMG	3.45	4.18	4.76	5.03	5.12	5.15	5.23
52°	5.28	6.27	6.89	7.15	7.24	7.28	7.38
60°	5.59	6.54	7.07	7.34	7.45	7.51	7.61
75°	5.84	6.75	7.21	7.53	7.78	7.93	8.04
90°	5.78	6.85	7.37	7.63	7.90	8.22	8.64
110°	5.80	6.91	7.46	7.94	8.40	8.70	9.21
120°	5.62	6.76	7.36	7.84	8.36	8.91	9.80
135°	5.05	6.22	7.03	7.51	7.98	8.49	9.77
150°	4.26	5.36	6.34	7.05	7.49	7.92	8.90
Run VMG	3.69	4.65	5.49	6.22	6.84	7.31	8.14
Gybe Angles	145.0°	149.0°	151.0°	158.0°	178.0°	180.0°	180.0°