



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

EYU
Regati 1
11911
Estonia

Certificate

Number **EST646**
Issued On **26.08.2016**
ORC Ref **EST00001252**
VPP Ver. **2016 1.01**
Valid until **31.12.2016**

Crew Weight

Declared **670kg**
Default* **639kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	629,2	0,9535
Double H.OSN	612,4	0,9797
Non Spin GPH	658,5	0,9112
Non Spin OSN	637,8	0,9408
N/S Perf. Line	5,0	0,588

Sails Limitations

Headsails **6** Spinnakers **3**

Spinnaker configuration

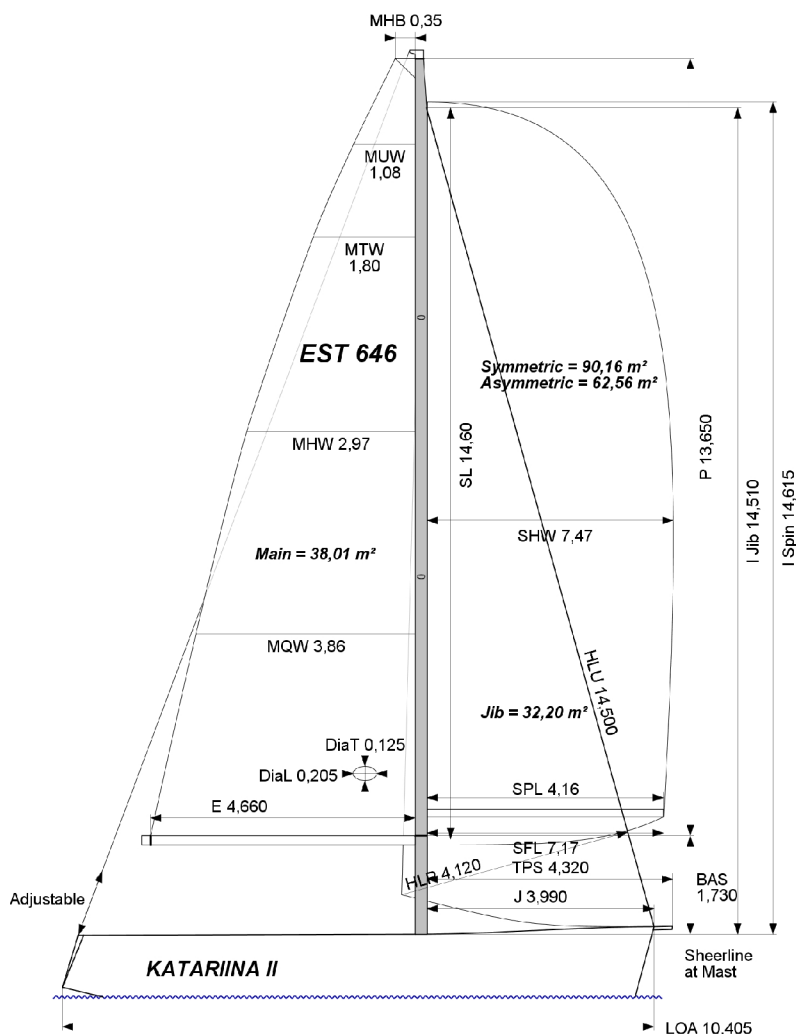
Symmetric: **Yes** **90,16**
Asymmetric: **Yes** **71,85**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **9,052**

Stability

LPS (Estimated): **113,4°**
Stability Index: **112,8**
OSR Category: **N/A**



BOAT		GPH	HULL	
Name	KATARIINA II	626,7	Data File	Est0646.dxt
Sail Nr	EST 646		LOA	10,405m
CLASS			Offset File	Arc340est646.off
Class	ARCONA 340		Displacement	4 868kg
Designer	STEFAN QVIBERG		Dynamic All.	0,166%
Builder	ARCONA YACHTS		Fwd Accom.	Yes
Series	05.2009		Fiber Rigging	No
Age Date	05.2010		Crew Arm Ex	No
Age Allowance	0,228%		Carbon Rudder	No
COMMENTS			Light Stanchions	
PROPELLER			IMSL	9,468m
Installation	Strut	PRD 0,425	VCGD	0,065m
Type	Folding 2 blades	PBW 0,100	Sink	19,19kg/mm
		PIPA 0,0033	RL	8,634m
SCORING OPTIONS			VCGM	0,056m
			WS	25,08m²
			LSM0	9,488m
			Displacement/Length ratio	5,6994
			Water Ballast	0
			Trim Tab	No
			CENTERBOARD	
			N/A	

	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	607,7			678,5		
Time On Time	0,9873			0,9948		
Performance Line	PLT 0,652	PLD 26,1		PLT 0,802	PLD 177,2	
Triple Number	Low 0,9285	Medium 1,2196	High 1,3910	Low 0,7145	Medium 0,9875	High 1,1581



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ORC Club Certificate Appendix

BOAT

Name **KATARIINA II**
Sail Nr **EST 646**

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TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1092,0	900,8	786,7	718,6	692,7	680,4	665,7
52°	706,3	590,5	527,0	499,9	489,9	485,0	478,8
60°	661,3	557,5	509,5	486,9	475,0	469,4	464,8
75°	624,5	533,7	497,0	475,2	456,4	443,4	434,3
90°	626,9	532,9	491,0	466,7	453,9	436,6	408,4
110°	639,1	529,7	488,0	459,9	433,4	412,3	387,6
120°	658,6	542,5	494,6	466,6	439,1	412,3	368,2
135°	728,7	592,1	519,2	486,1	460,3	434,1	383,2
150°	863,0	683,7	578,5	516,9	486,5	462,4	414,9
Run VMG	996,5	789,5	667,0	587,8	532,3	496,6	449,3

Selected Courses

Windward / Leeward	1044,3	845,1	726,8	653,2	612,5	588,5	557,5
Circular Random	870,5	700,2	607,8	553,2	518,8	495,6	464,9
Ocean for PCS	1068,3	821,9	682,2	596,1	539,8	500,0	443,1
Non Spinnaker	926,8	740,1	637,8	576,8	538,6	513,3	481,0

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	44,0°	42,6°	42,2°	40,3°	39,1°	38,4°	38,0°
Beat VMG	3,30	4,00	4,58	5,01	5,20	5,29	5,41
52°	5,10	6,10	6,83	7,20	7,35	7,42	7,52
60°	5,44	6,46	7,07	7,39	7,58	7,67	7,74
75°	5,76	6,74	7,24	7,58	7,89	8,12	8,29
90°	5,74	6,76	7,33	7,71	7,93	8,25	8,81
110°	5,63	6,80	7,38	7,83	8,31	8,73	9,29
120°	5,47	6,64	7,28	7,71	8,20	8,73	9,78
135°	4,94	6,08	6,93	7,41	7,82	8,29	9,39
150°	4,17	5,27	6,22	6,96	7,40	7,79	8,68
Run VMG	3,61	4,56	5,40	6,12	6,76	7,25	8,01
Gybe Angles	145,2°	149,5°	151,6°	157,6°	176,1°	180,0°	180,0°