



World Leader in Rating Technology

**2015
ORC Club
Certificate**

Rating Office

**EYU
Regati 1
11911
Estonia**

Certificate

Number **EST949**
Issued On **12.07.2015**
ORC Ref **EST0000865**
VPP Ver. **2015 1.01**
Valid until **31.12.2015**

Crew Weight

Declared **730 kg**
Default* **714 kg**
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **640,1 0,9374**
Non Spin OSN **620,3 0,9672**
N/S Perf. Line **61,7 0,760**

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 100,20**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **9,681**

Stability

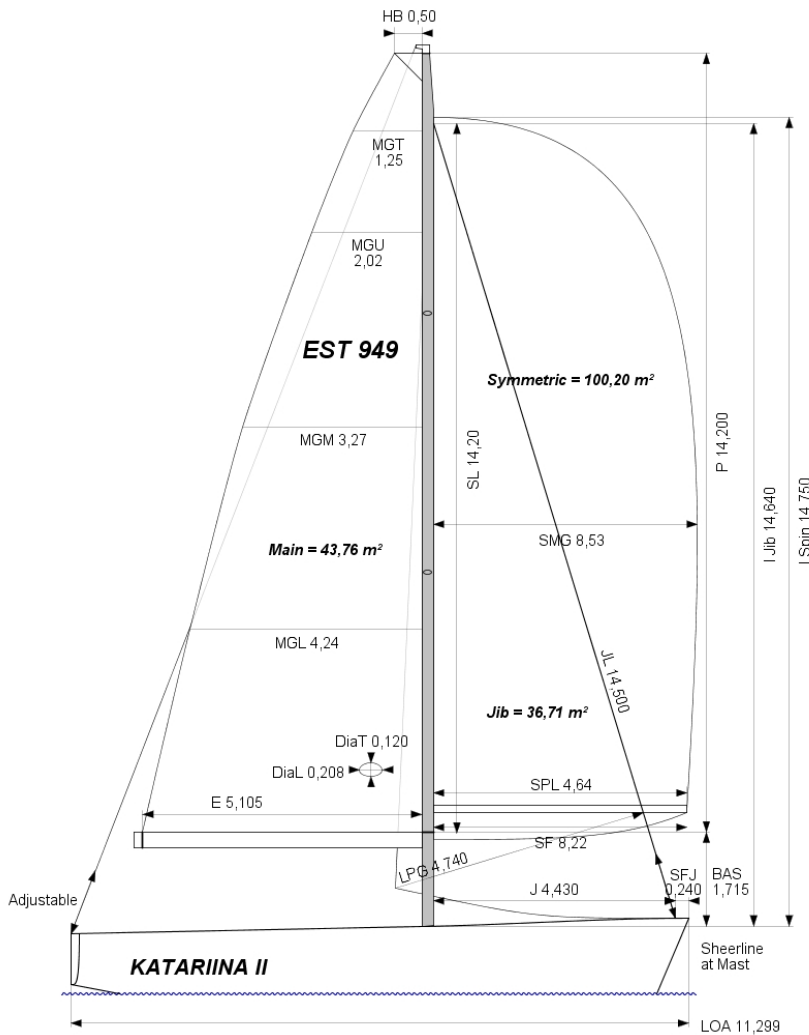
LPS (Measured): **118,7°**
Stability Index: **119,8**
OSR Category: **1**

Owner

Aivar Tuulberg
Sõbra 54, Tartu
Estonia
Pärnu JK

I certify that I understand my responsibilities under ORC Rules and Regulations

Signature



BOAT Name KATARIINA II Sail Nr EST 949		GPH 610,1	HULL Data File Est0949.dxt LOA 11,299 m Offset File kat00P4 Def Per MB 3,664 m Displacement 6 072 kg Draft 2,004 m			
CLASS Class ONE OFF Designer COSSUTTI MAURIZIO Builder RIDAS YACHT OÜ Series 07.2015 Age Date 07.2015 Age Allowance 0,000%			IMS Division Cruiser/Racer Dynamic All. 0,124% Fwd Accom. Yes Construction Cored Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No			
COMMENTS			IMS L 10,376 VCGD 0,055 Sink 21,32 kg/mm RL 8,985 VCGM 0,036 WS 27,99 m² Water Ballast 0 Trim Tab No			
PROPELLER Installation Strut PRD 0,406 Type Folding 2 blades PBW 0,113 PIPA 0,0036			CENTERBOARD N/A			
SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	593,1			663,4		
Time On Time	1,0116			1,0175		
Performance Line	PLT 0,839	PLD 88,1		PLT 0,797	PLD 160,2	
Triple Number	Low 0,9513	Medium 1,2545	High 1,4278	Low 0,7273	Medium 1,0083	High 1,1897



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ORC Club Certificate Appendix

BOAT	
Name	KATARIINA II
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1047,9	864,2	759,4	704,5	677,7	663,1	656,4
52°	677,7	566,1	506,0	480,6	470,8	465,8	461,6
60°	634,9	534,1	487,6	466,7	456,4	450,8	446,5
75°	600,7	511,3	475,8	455,4	438,6	426,3	417,2
90°	606,2	513,5	471,7	456,3	438,6	421,6	393,8
110°	624,6	513,7	469,6	443,5	417,9	402,7	383,9
120°	645,0	528,2	476,9	450,5	425,9	401,8	369,9
135°	724,0	585,0	507,7	471,5	448,0	424,3	378,3
150°	871,0	688,1	577,6	506,9	472,3	449,5	404,7
Run VMG	1005,8	794,6	666,3	577,0	515,3	478,2	432,9

Selected Courses							
Windward / Leeward	1026,9	829,4	712,9	640,7	596,5	570,7	544,6
Circular Random	849,2	682,1	591,5	538,1	504,8	482,9	455,4
Ocean for PCS	905,5	712,6	604,5	538,0	494,0	462,4	416,5
Non Spinnaker	902,7	720,1	619,8	560,2	522,7	498,2	468,2

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	44,1°	42,8°	42,4°	40,9°	40,3°	39,5°	39,7°
Beat VMG	3,44	4,17	4,74	5,11	5,31	5,43	5,48
52°	5,31	6,36	7,12	7,49	7,65	7,73	7,80
60°	5,67	6,74	7,38	7,71	7,89	7,99	8,06
75°	5,99	7,04	7,57	7,90	8,21	8,44	8,63
90°	5,94	7,01	7,63	7,89	8,21	8,54	9,14
110°	5,76	7,01	7,67	8,12	8,61	8,94	9,38
120°	5,58	6,82	7,55	7,99	8,45	8,96	9,73
135°	4,97	6,15	7,09	7,64	8,04	8,49	9,52
150°	4,13	5,23	6,23	7,10	7,62	8,01	8,89
Run VMG	3,58	4,53	5,40	6,24	6,99	7,53	8,32
Gybe Angles	138,7°	149,2°	151,9°	159,5°	173,7°	178,2°	178,4°