



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

EYU
Regati 1
11911
Estonia

Certificate

Number **Est501**
Issued On **14.06.2016**
ORC Ref **EST00001128**
VPP Ver. **2016 1.01**
Valid until **31.12.2016**

Crew Weight

Declared **1 100kg**
Default* **1 103kg**
Non Manual Pwr **Yes**

Special Scoring

	ToD	ToT
Double H.GPH	531,7	1,1284
Double H.OSN	518,8	1,1565
Non Spin GPH	558,5	1,0743
Non Spin OSN	545,1	1,1008
N/S Perf. Line	-0,8	0,679

Sails Limitations

Headsails **7** Spinnakers **4**

Spinnaker configuration

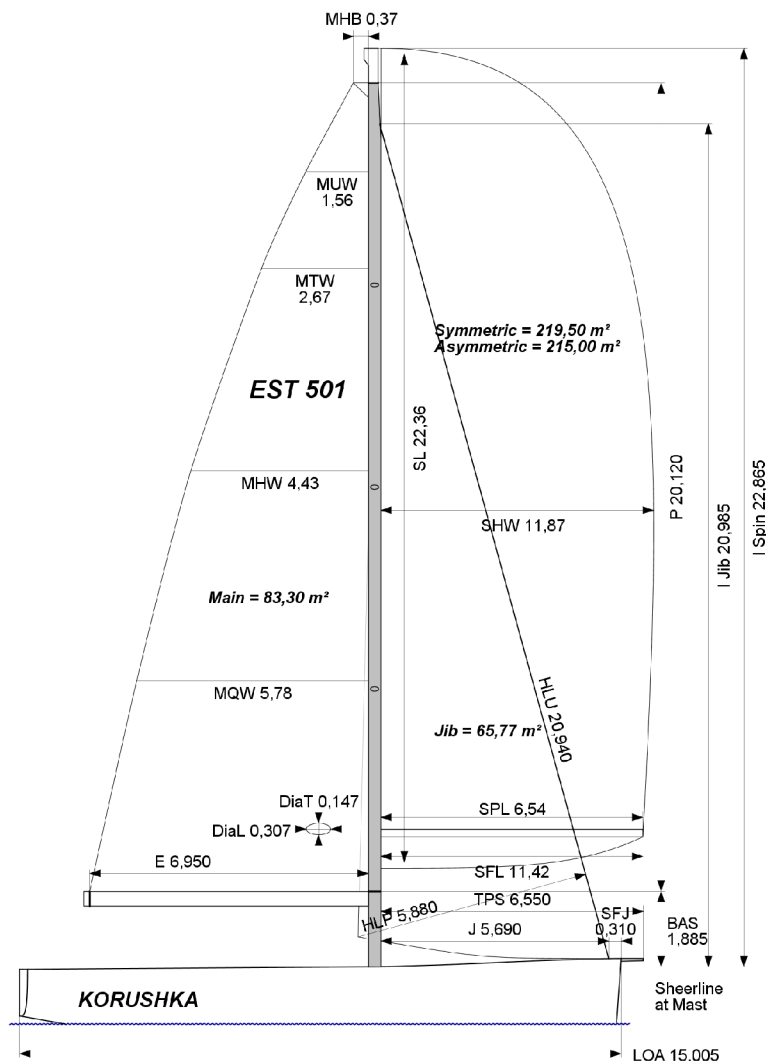
Symmetric: **Yes** **219,50**
Asymmetric: **Yes** **215,00**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **12,901**

Stability

LPS (Measured): **122,5°**
Stability Index: **131,3**
OSR Category: **0**



BOAT		GPH	HULL	
Name	KORUSHKA	525,7	Data File	Est0501.dxt
Sail Nr	EST 501		LOA	15,005m
CLASS			Offset File	Xp50ver.off
Class	Xp 50		Displacement	14 342kg
Designer	Jeppesen		IMS Division	Cruiser/Racer
Builder	X-Yachts		Fwd Accom.	Yes
Series	02.2013		Fiber Rigging	
Age Date	02.2014		Crew Arm Ex	
Age Allowance	0,098%		Dynamic All.	0,045%
COMMENTS			Construction	Cored
User: Mati Sepp according to yacht charter agreement			Aramid Core	
PROPELLER			Carbon Rudder	
Installation	Strut	PRD 0,492	Light Stanchions	
Type	Folding 2 blades	PBW 0,120	IMSL	14,018m
		PIPA 0,0041	VCGD	0,058m
SCORING OPTIONS			Sink	34,34kg/mm
			RL	11,783m
			VCGM	-0,006m
			WS	47,03m²
			LSM0	13,919m
			Displacement/Length ratio	5,3185
			Water Ballast	0
			Trim Tab	
			CENTERBOARD	
			N/A	

	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	512,1			574,3		
Time On Time	1,1716			1,1754		
Performance Line	0,796	38,9		0,997	204,5	
Triple Number	Low 1,1159	Medium 1,4511	High 1,6362	Low 0,8559	Medium 1,1663	High 1,3622



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ORC Club Certificate Appendix

BOAT

Name **KORUSHKA**
Sail Nr **EST 501**

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TIME ALLOWANCES

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	905,5	747,0	657,3	615,2	593,5	579,5	560,7
52°	587,0	490,0	438,7	420,9	413,0	408,6	400,1
60°	549,9	461,7	422,2	407,2	400,7	396,8	389,7
75°	517,8	441,2	410,5	394,9	384,5	378,6	372,3
90°	518,6	439,8	411,1	394,4	380,3	366,8	350,5
110°	529,2	437,2	402,8	388,2	378,0	367,6	348,7
120°	546,1	447,4	408,2	386,8	368,6	356,4	336,0
135°	609,3	493,5	429,8	402,0	382,3	361,3	318,5
150°	724,0	576,8	488,1	433,4	405,3	386,5	347,6
Run VMG	836,1	666,1	563,6	496,9	455,0	421,8	381,8

Selected Courses

Windward / Leeward	870,8	706,5	610,5	556,0	524,2	500,7	471,3
Circular Random	725,9	585,3	509,9	466,1	438,9	420,6	395,9
Ocean for PCS	893,6	689,2	573,8	503,3	457,5	425,5	381,0
Non Spinnaker	784,8	627,3	541,0	489,7	457,4	435,7	407,7

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	43,8°	42,7°	41,9°	40,5°	39,4°	38,5°	38,3°
Beat VMG	3,98	4,82	5,48	5,85	6,07	6,21	6,42
52°	6,13	7,35	8,21	8,55	8,72	8,81	9,00
60°	6,55	7,80	8,53	8,84	8,98	9,07	9,24
75°	6,95	8,16	8,77	9,12	9,36	9,51	9,67
90°	6,94	8,19	8,76	9,13	9,47	9,81	10,27
110°	6,80	8,23	8,94	9,27	9,52	9,79	10,32
120°	6,59	8,05	8,82	9,31	9,77	10,10	10,71
135°	5,91	7,29	8,38	8,95	9,42	9,96	11,30
150°	4,97	6,24	7,38	8,31	8,88	9,31	10,36
Run VMG	4,31	5,40	6,39	7,24	7,91	8,53	9,43
Gybe Angles	143,4°	146,3°	148,5°	153,7°	160,6°	180,0°	180,0°