



World Leader in Rating Technology

2016 ORC Club Certificate

Rating Office

EYU
Regati 1
11911
Estonia

Certificate

Number **EST632**
Issued On **24.05.2016**
ORC Ref **EST00001071**
VPP Ver. **2016 1.01**
Valid until **31.12.2016**

Crew Weight

Declared **670kg**
Default* **638kg**
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double	652,5	0,9195
Double	635,2	0,9445
Non Spin GPH	683,6	0,8777
Non Spin OSN	661,0	0,9077
N/S Perf. Line	6,1	0,568

Sails Limitations

Headsail **6** Spinnakers **3**

Spinnaker configuration

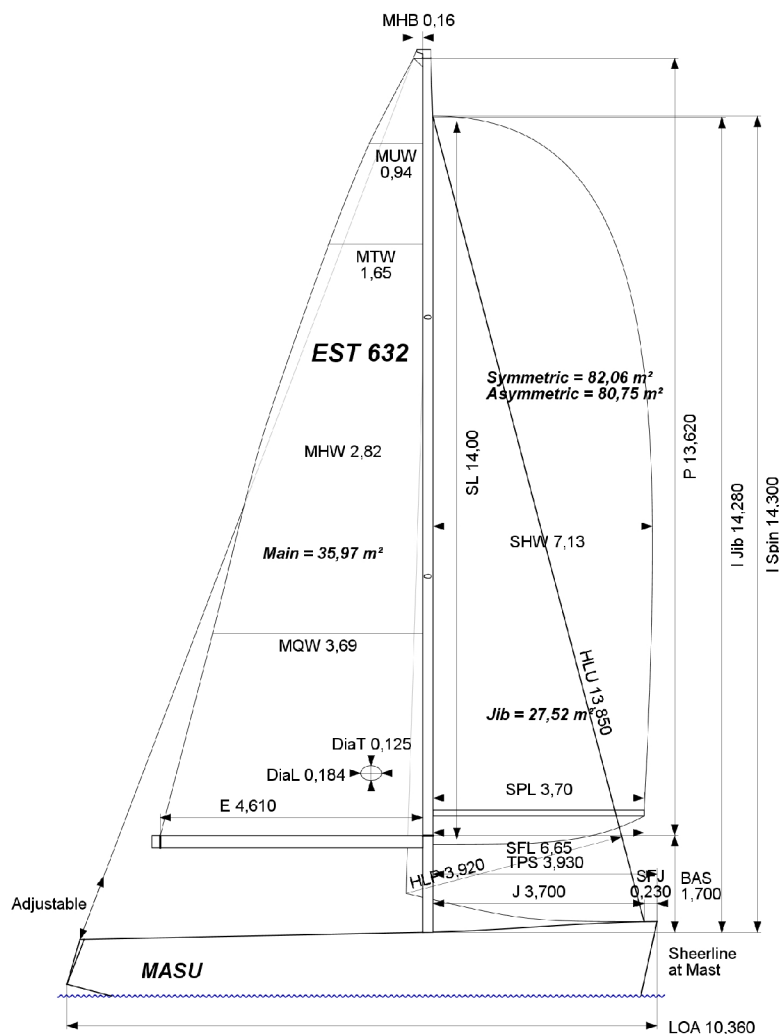
Symmetric: **Yes** **82,06**
Asymmetric: **Yes** **80,75**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = **8,641**

Stability

LPS (Measured): **116,0°**
Stability Index: **118,9**
OSR Category: **1**



BOAT		GPH	HULL	
Name	MASU	650,1	Data File	Est0632.dxt
Sail Nr	EST 632		LOA	10,360m
CLASS			Offset File	X34.OFF
Class	X-34		MB	3,384m
Designer	JEPPESEN		Displacement	5 714kg
Builder	X YACHTS		IMS Division	Cruiser/Racer
Series	11.2007		Dynamic All.	0,255%
Age Date	04.2008		Fwd Accom.	Yes
Age Allowance	0,292%		Fiber	No
COMMENTS			Crew Arm Ex	No
			Aramid Core	No
			Carbon Rudder	No
			Light	
			IMSL	9,492m
			VCGD	0,095m
			Sink	18,24kg/mm
			RL	7,789m
			VCGM	0,063m
			WS	24,74m²
			LSM0	9,484m
			Displacement/Length	6,6983
			Water Ballast	0
			Trim Tab	No
PROPELLER			CENTERBOARD	
Installation	Strut	PRD	N/A	
Type	Folding 2 blades	PBW		
		PIPA		

SCORING OPTIONS						
	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
Time On Distance	630,8			704,5		
Time On Time	0,9512			0,9581		
Performance Line	PLT 0,633	PLD 30,2		PLT 0,763	PLD 169,6	
Triple Number	Low 0,8958	Medium 1,1762	High 1,3337	Low 0,6891	Medium 0,9479	High 1,1150



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ORC Club Certificate Appendix

BOAT			
Name	MASU	Certificate Number	EST632
Sail Nr	EST 632	Issued On	24.05.2016

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1137,3	942,5	833,5	756,6	724,2	710,2	700,8
52°	736,2	618,3	549,2	516,1	502,2	496,9	493,8
60°	690,9	582,0	526,6	501,5	488,3	482,2	478,2
75°	654,1	553,4	510,9	490,1	474,6	462,1	450,4
90°	653,0	542,9	499,4	480,4	472,5	459,0	431,6
110°	653,5	541,4	498,8	474,9	452,4	434,4	415,5
120°	677,2	558,5	506,4	481,3	458,9	435,7	398,4
135°	754,4	614,5	533,2	497,9	475,6	453,8	410,8
150°	888,0	704,1	597,3	530,0	498,0	476,9	436,1
Run VMG	1025,3	813,0	688,5	603,8	544,4	506,9	465,1
Selected Courses							
Windward / Leeward	1081,3	877,7	761,0	680,2	634,3	608,6	583,0
Circular Random	902,6	726,0	630,3	574,1	539,3	516,6	489,0
Ocean for PCS	1108,0	853,2	708,5	619,5	561,7	521,5	466,1
Non Spinnaker	963,3	768,8	662,0	598,3	558,6	532,8	501,8

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	43,9°	42,4°	42,5°	41,7°	40,1°	39,9°	39,7°
Beat VMG	3,17	3,82	4,32	4,76	4,97	5,07	5,14
52°	4,89	5,82	6,55	6,98	7,17	7,24	7,29
60°	5,21	6,19	6,84	7,18	7,37	7,47	7,53
75°	5,50	6,50	7,05	7,34	7,59	7,79	7,99
90°	5,51	6,63	7,21	7,49	7,62	7,84	8,34
110°	5,51	6,65	7,22	7,58	7,96	8,29	8,66
120°	5,32	6,45	7,11	7,48	7,84	8,26	9,04
135°	4,77	5,86	6,75	7,23	7,57	7,93	8,76
150°	4,05	5,11	6,03	6,79	7,23	7,55	8,26
Run VMG	3,51	4,43	5,23	5,96	6,61	7,10	7,74
Gybe Angles	145,7°	150,5°	152,1°	157,1°	176,2°	180,0°	180,0°