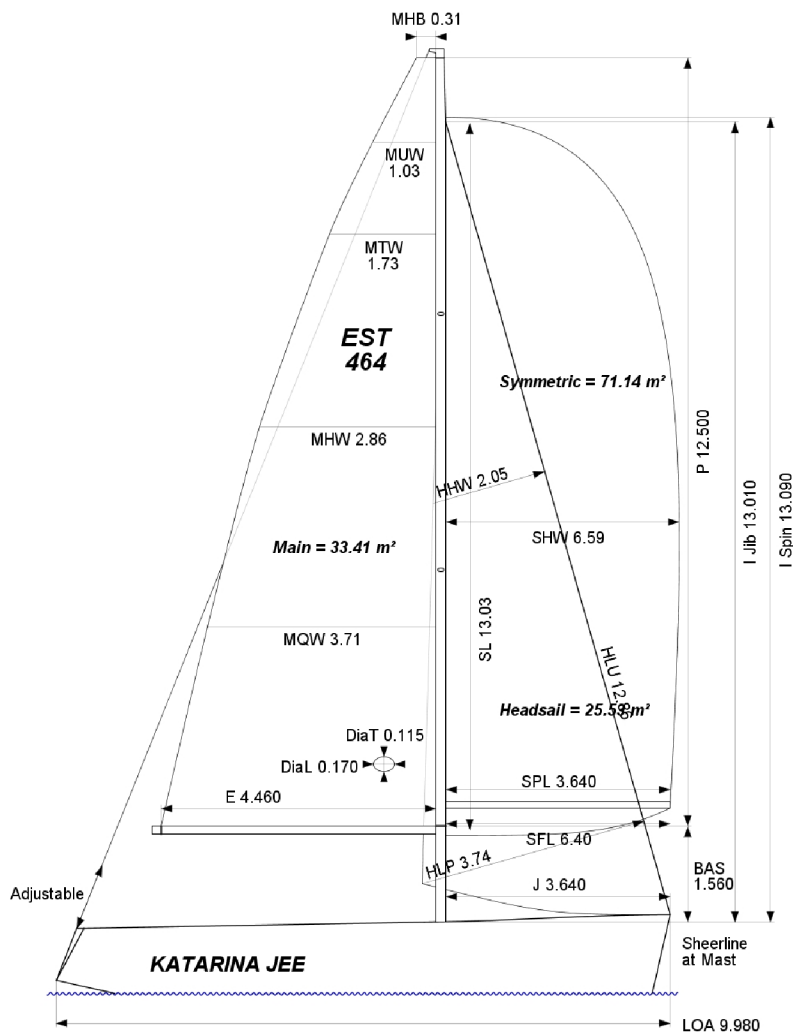




ORC

Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



ESTONIAN
YACHTING
UNION

Certificate

Number **127/20**
Issued On **24/07/2020**
ORC Ref **03880000N3R**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default **587kg**
Maximum **650kg**
Minimum* **488kg**
*when applied by the NoR and SI
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **679.4 0.8831**
Non Spin OSN **657.3 0.9128**

Sails Limitations

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

Spinnaker configuration

Symmetric: **Yes 71.14**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.571

Stability (Measured)

Limit Positive Stab.: **131.6°**
Stability Index: **130.9**

BOAT			GPH		HULL		
Name KATARINA JEE Sail Nr EST 464			646.8		Data File EST464	LOA 9.980m	
					Offset File F235.OFF	MB 3.372m	
					Displacement 4,549kg	Draft 1.998m	
CLASS					IMS Division Cruiser/Racer	Dynamic All. 0.212%	
					Plan Review	Construction Cored	
					Fiber Rigging No	Aramid Core No	
					Crew Arm Ex	Carbon Rudder No	
						Light Stanchions No	
Class First 34.7					IMSL 9.074m	VCGD -0.189m Sink 16.29kg/mm	
Designer Farr					RL 8.077m	VCGM -0.171m WS 21.98m	
Builder Beneteau					LSM0 8.944m Displacement/Length ratio 6.3580		
Series 10/2005							
Age Date 03/2007							
Age Allowance 0.487%							
COMMENTS							
PROPELLER				CENTERBOARD			
Installation Strut				Water Ballast			
				Trim Tab No			
Type Folding 2 blades				BLR Index 0.0000			
SCORING OPTIONS							
	COASTAL / LONG DISTANCE				WINDWARD / LEEWARD		
Time on Distance	627.7				699.5		
Time on Time	0.9558				0.9650		
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	745.6	571.8	507.9	964.0	703.3	607.8	
Time on Time	0.9053	1.1805	1.3291	0.7002	0.9597	1.1106	

CENTERBOARD	
	N/A

Material	Comment
Unknown	
Unknown	
Unknown	

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer		Meas.Date	Manufacture	Material	Comment				
5	0.31	1.03	1.73	2.86	3.71	33.41					Unknown	P12,50;E4,46				
HEADSAILS (3)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrip	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
6a	0.10	0.58	1.10	2.05	2.93	3.74	12.86	103%	25.53	Y	No		22/06/2016	NS	Unknow	
7a	0.11	0.60	1.11	2.05	2.93	3.72	12.85	102%	25.53	Y	No		22/06/2016	NS	Unknow	
8a	0.11	0.57	1.07	2.01	2.90	3.75	12.78	103%	25.12	Y	No		22/06/2016	NS	Unknow	
SYMMETRIC SPINNAKERS (3)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer		Meas.Date	Manufacture	Material	Comment				
4	13.03	13.03	13.03	6.59	6.40	71.15			27/06/2015		Unknown					
5	13.08	13.08	13.08	6.55	6.39	71.05			27/06/2015		Unknown					
6	13.03	13.03	13.03	6.53	6.55	70.95			27/06/2015		Unknown					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer		Meas.Date	Manufacture	Material	Comment			

MEASUREMENT INVENTORY				
Measurer				
Date				
Comment				
Internal Ballast total = 0.0				
Id	Item	Weight	Distance	VCG Description
Id	Item	Weight	Description	

MEASUREMENT INVENTORY				
Id	Item	Weight	Distance	VCG Description

2020

ORC Club Certificate Appendix

BOAT			
Name	KATARINA JEE	Certificate Number	127/20
Sail Nr	EST 464	Issued On	24/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1104.9	916.8	805.0	743.0	721.3	713.6	709.0
52°	719.4	606.6	547.0	520.9	509.2	505.0	503.0
60°	679.0	576.3	530.6	508.7	496.2	490.2	487.1
75°	650.4	555.5	518.5	498.3	482.3	469.3	457.2
90°	658.8	551.5	508.5	487.0	476.7	461.2	433.5
110°	656.4	544.5	503.0	477.0	452.5	432.6	412.2
120°	677.4	557.7	509.0	482.1	456.7	432.5	392.3
135°	749.7	610.1	534.0	500.5	475.8	450.8	404.4
150°	885.4	703.2	595.3	531.5	500.8	477.6	432.2
Run VMG	1022.4	812.0	686.2	603.4	545.5	509.9	464.3
Selected Courses							
Windward / Leeward	1063.7	864.4	745.6	673.2	633.4	611.8	586.7
Circular Random	894.0	720.7	627.4	573.0	539.7	518.0	490.5
Coastal / Long Distance	1059.5	810.9	672.1	590.5	550.0	519.1	467.1
Non Spinnaker	952.4	761.9	658.1	596.9	559.1	534.7	504.4

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°	41.6°	41.3°	39.4°	39.0°	39.0°	39.0°
Beat VMG	3.26	3.93	4.47	4.85	4.99	5.04	5.08
52°	5.00	5.93	6.58	6.91	7.07	7.13	7.16
60°	5.30	6.25	6.79	7.08	7.25	7.34	7.39
75°	5.54	6.48	6.94	7.22	7.46	7.67	7.87
90°	5.46	6.53	7.08	7.39	7.55	7.81	8.31
110°	5.48	6.61	7.16	7.55	7.96	8.32	8.73
120°	5.31	6.45	7.07	7.47	7.88	8.32	9.18
135°	4.80	5.90	6.74	7.19	7.57	7.99	8.90
150°	4.07	5.12	6.05	6.77	7.19	7.54	8.33
Run VMG	3.52	4.43	5.25	5.97	6.60	7.06	7.75
Gybe Angles	145.5°	150.0°	152.0°	158.0°	180.0°	180.0°	180.0°