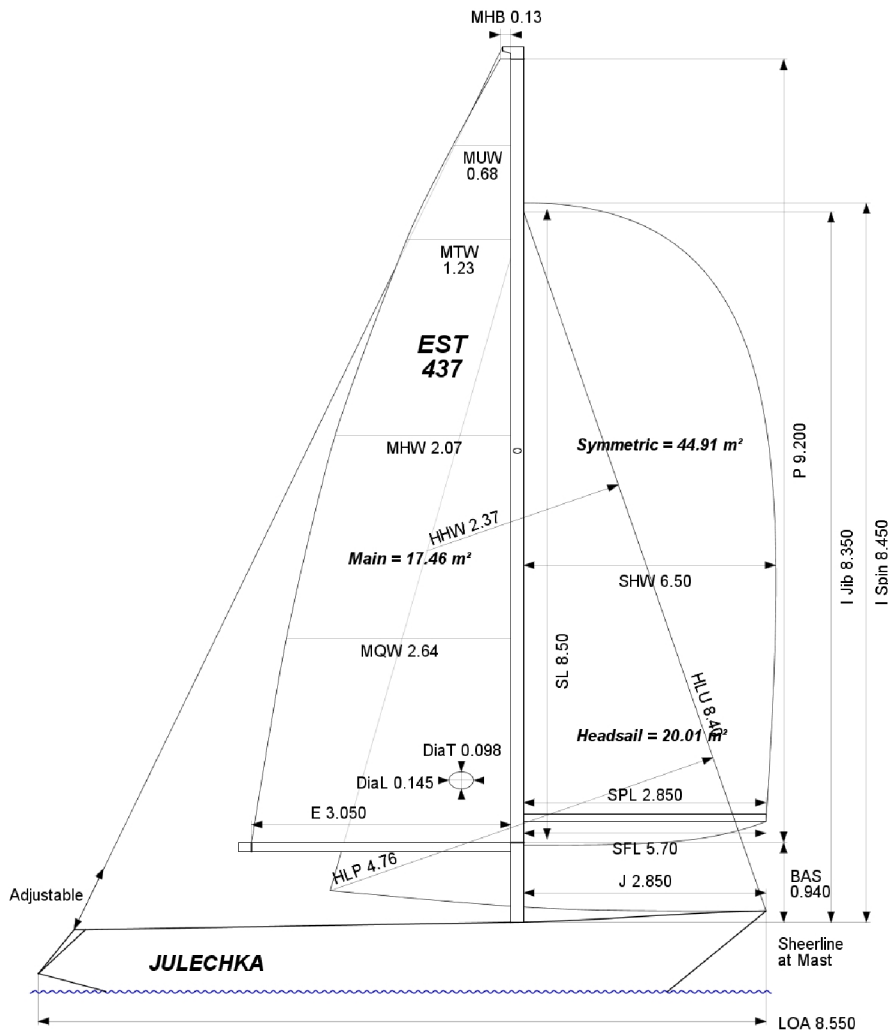




ORC
Offshore Racing Congress
World leader in rating technology

2020
ORC Club
Certificate

Rating Office

Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



ESTONIAN
YACHTING
UNION

Certificate

Number **069/20**
Issued On **17/06/2020**
ORC Ref **03880000KQW**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 372kg
Maximum **200kg**
Minimum* **115kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **796.7 0.7531**
Non Spin OSN **777.1 0.7721**

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration

Symmetric: **Yes 44.91**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 5.689

Stability (Estimated)

Limit Positive Stab.: **138.9°**
Stability Index: **142.0**

BOAT		GPH	HULL	
Name	JULECHKA	770.1	Data File	EST437 LOA 8.550m
Sail Nr	EST437		Offset File	RJ85_CL.off MB 2.012m
CLASS			Displacement	2,330kg Draft 1.212m
Class	RJ 85		IMS Division	Cruiser/Racer Dynamic All. 0.365%
Designer	Jakobssen		Plan Review	Construction Solid
Builder	Jakobssen		Fiber Rigging	No Aramid Core No
Series	01/1969		Crew Arm Ex	Carbon Rudder No
Age Date	01/1975			Light Stanchions No
Age Allowance	0.487%		IMSL	6.630m VCGD -0.246m Sink 8.12kg/mm
COMMENTS			RL	4.748m VCGM -0.199m WS 14.00m²
koos päramootriga 2330			LSM0	6.496m Displacement/Length ratio 8.5000
PROPELLER			Water Ballast	Trim Tab No
Type No Propeller			BLR Index	0.0000
CENTERBOARD			N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	753.5			848.4		
Time on Time	0.7963			0.7956		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	862.2	685.5	633.7	1113.5	848.8	766.1
Time on Time	0.7829	0.9847	1.0652	0.6062	0.7952	0.8811

BOAT Name JULECHKA Sail Nr EST437 File EST437 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Club Estimated VCG Flotation date 15/10/2019 SG 1.0250 FFM 0.938 FF 0.938 SFFP 0.573 FAM 0.647 FA 0.647 SAFF 7.992 LCF from stem on CL / on sheer 4.623 / 4.731 Maximum beam station from stem 4.560 RM Measured 22.9kg·m RM Default 22.2kg·m Limit of positive stability / Stab.Index 138.9° / 142.0 Freeboard at mast at 2.850 0.815		 ORC Offshore Racing Congress World leader in rating technology 2020 Measurements Datasheet
RIG Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit				
P 9.200 E 3.050 MDT1 0.098 MW 0.000 IG 8.350 J 2.850 MDL1 0.145 GO 0.000 ISP 8.450 SFJ MDT2 0.000 BD BAS 0.940 SPL 2.850 MDL2 0.000 MWT FSD TPS TL 0.000 MCG				
MIZZEN RIG AND SAILS N/A		PROPELLER Type No Propeller		Certificate Number 069/20 ORC Ref 03880000KQW Issued On 17/06/2020 VPP Ver. 2020 1.02 Valid until 31/12/2020  EJL ESTONIAN YACHTING UNION
COMMENTS koos pāramootrīga 2330		MOVABLE BALLAST N/A		
		CENTERBOARD N/A		

SAILS INVENTORY																
MAINSAIL (1)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	0.13	0.68	1.23	2.07	2.64	17.32										
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.06	0.61	1.18	2.37	3.57	4.76	8.40	167%	20.01		No					
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	8.50	8.50	8.50	6.50	5.70	44.91										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT			
Name	JULECHKA	Certificate Number	069/20
Sail Nr	EST437	Issued On	17/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1285.6	1083.6	1001.9	969.1	958.4	959.1	968.4
52°	839.1	713.4	656.8	639.4	632.7	630.1	630.7
60°	792.3	674.4	628.3	613.6	607.3	604.8	604.9
75°	754.1	646.6	607.8	590.7	581.8	577.1	575.2
90°	757.6	645.0	602.0	581.2	566.8	555.6	544.6
110°	748.3	626.6	585.7	565.5	553.2	542.6	525.4
120°	776.6	635.7	588.2	561.1	538.0	524.1	504.3
135°	867.4	696.0	607.6	575.0	548.3	522.0	477.6
150°	1005.8	799.7	669.1	602.6	573.4	548.2	498.6
Run VMG	1161.4	923.2	771.5	671.7	611.7	580.3	531.3
Selected Courses							
Windward / Leeward	1223.5	1003.4	886.7	820.4	785.1	769.7	749.9
Circular Random	1042.2	848.0	747.3	692.1	660.9	642.5	621.6
Coastal / Long Distance	1217.3	940.4	796.5	716.2	673.4	641.2	586.0
Non Spinnaker	1090.2	882.0	772.6	711.3	675.9	654.8	632.3

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	43.5°	42.0°	43.1°	43.5°	43.5°	44.3°	45.4°
Beat VMG	2.80	3.32	3.59	3.71	3.76	3.75	3.72
52°	4.29	5.05	5.48	5.63	5.69	5.71	5.71
60°	4.54	5.34	5.73	5.87	5.93	5.95	5.95
75°	4.77	5.57	5.92	6.09	6.19	6.24	6.26
90°	4.75	5.58	5.98	6.19	6.35	6.48	6.61
110°	4.81	5.75	6.15	6.37	6.51	6.64	6.85
120°	4.64	5.66	6.12	6.42	6.69	6.87	7.14
135°	4.15	5.17	5.93	6.26	6.57	6.90	7.54
150°	3.58	4.50	5.38	5.97	6.28	6.57	7.22
Run VMG	3.10	3.90	4.67	5.36	5.89	6.20	6.78
Gybe Angles	148.0°	152.0°	151.0°	165.8°	180.0°	180.0°	180.0°