



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 **003/20**
Issued On **05/06/2020**
ORC Ref **03880000JTN**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 420kg
Maximum **400kg**
Minimum* 300kg
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **780.8 0.7684**
Non Spin OSN **755.9 0.7938**

Sails Limitations

Headsails **1** Spinnakers **4**

Spinnaker configuration

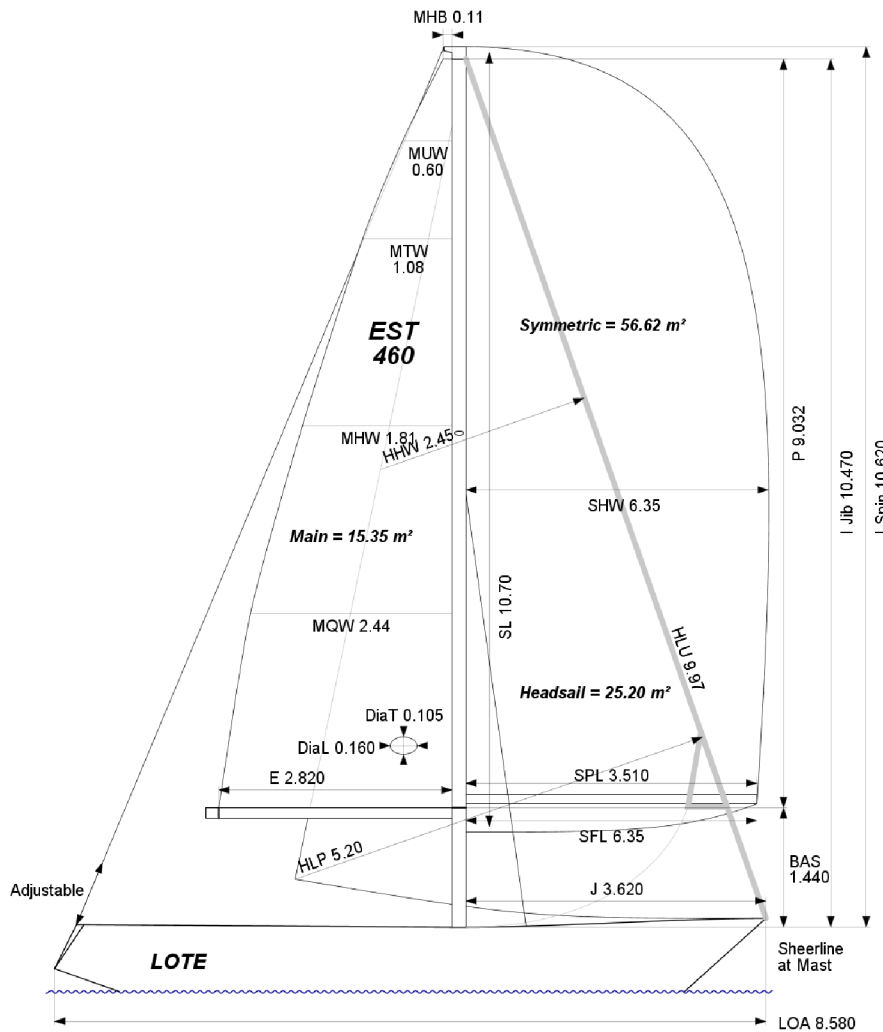
Symmetric: **Yes 56.62**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.372

Stability (Estimated)

Limit Positive Stab.: **117.3°**
Stability Index: **116.7**



BOAT Name LOTE Sail Nr EST 460	GPH 745.3	HULL Data File EST460 LOA 8.580m Offset File e186.bof MB 2.920m Displacement 3,296kg Draft 1.565m
CLASS Class COMPIS 28 Designer BO ANDERSSON Builder KARLSTAD Series 01/1974 Age Date Age Allowance 0.487%		IMS Division Cruiser/Racer Dynamic All. 0.521% Plan Review Construction Solid Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder No Light Stanchions No
COMMENTS		IMSL 6.960m VCGD 0.000m Sink 10.58kg/mm RL 5.787m VCGM -0.061m WS 15.15m² LSM0 7.074m Displacement/Length ratio 9.3109
PROPELLER Installation Shaft non exposed PRD 0.330 Type Folding 2 blades PBW 0.085 PIPA 0.0003		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	724.5	803.8
Time on Time	0.8281	0.8397
Triple Number	Low Medium High	Low Medium High
Time on Distance	849.2 661.9 593.0	1086.6 809.4 702.5
Time on Time	0.7949 1.0198 1.1382	0.6212 0.8339 0.9609

2020

ORC Club Certificate Appendix

BOAT	
Name LOTE	Certificate Number 003/20
Sail Nr EST 460	Issued On 05/06/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1258.9	1068.4	951.6	877.7	846.0	831.7	827.1
52°	829.6	707.5	639.7	609.8	594.7	586.4	581.2
60°	788.0	670.6	618.6	594.9	580.4	570.5	562.2
75°	759.2	647.7	603.6	582.0	566.2	553.0	534.0
90°	767.2	641.6	591.0	568.1	557.8	545.6	519.2
110°	749.8	625.4	580.4	554.0	531.4	513.5	496.4
120°	769.8	636.5	584.8	556.7	532.1	510.0	480.4
135°	834.2	690.0	606.5	572.9	547.6	523.2	482.5
150°	967.2	782.4	665.8	601.5	572.0	548.8	505.3
Run VMG	1116.9	902.4	766.3	674.4	612.7	580.1	535.1
Selected Courses							
Windward / Leeward	1187.9	985.4	858.9	776.1	729.3	705.9	681.1
Circular Random	1019.5	826.7	723.6	663.8	627.4	604.1	576.2
Coastal / Long Distance	1180.8	924.9	775.0	684.3	638.3	604.6	551.3
Non Spinnaker	1081.9	871.5	757.3	690.1	648.6	621.9	589.9

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	42.0°	41.3°	42.0°	40.5°	39.8°	39.4°	39.8°
Beat VMG	2.86	3.37	3.78	4.10	4.26	4.33	4.35
52°	4.34	5.09	5.63	5.90	6.05	6.14	6.19
60°	4.57	5.37	5.82	6.05	6.20	6.31	6.40
75°	4.74	5.56	5.96	6.19	6.36	6.51	6.74
90°	4.69	5.61	6.09	6.34	6.45	6.60	6.93
110°	4.80	5.76	6.20	6.50	6.77	7.01	7.25
120°	4.68	5.66	6.16	6.47	6.77	7.06	7.49
135°	4.32	5.22	5.94	6.28	6.57	6.88	7.46
150°	3.72	4.60	5.41	5.98	6.29	6.56	7.12
Run VMG	3.22	3.99	4.70	5.34	5.88	6.21	6.73
Gybe Angles	148.5°	153.0°	152.0°	166.0°	180.0°	180.0°	180.0°