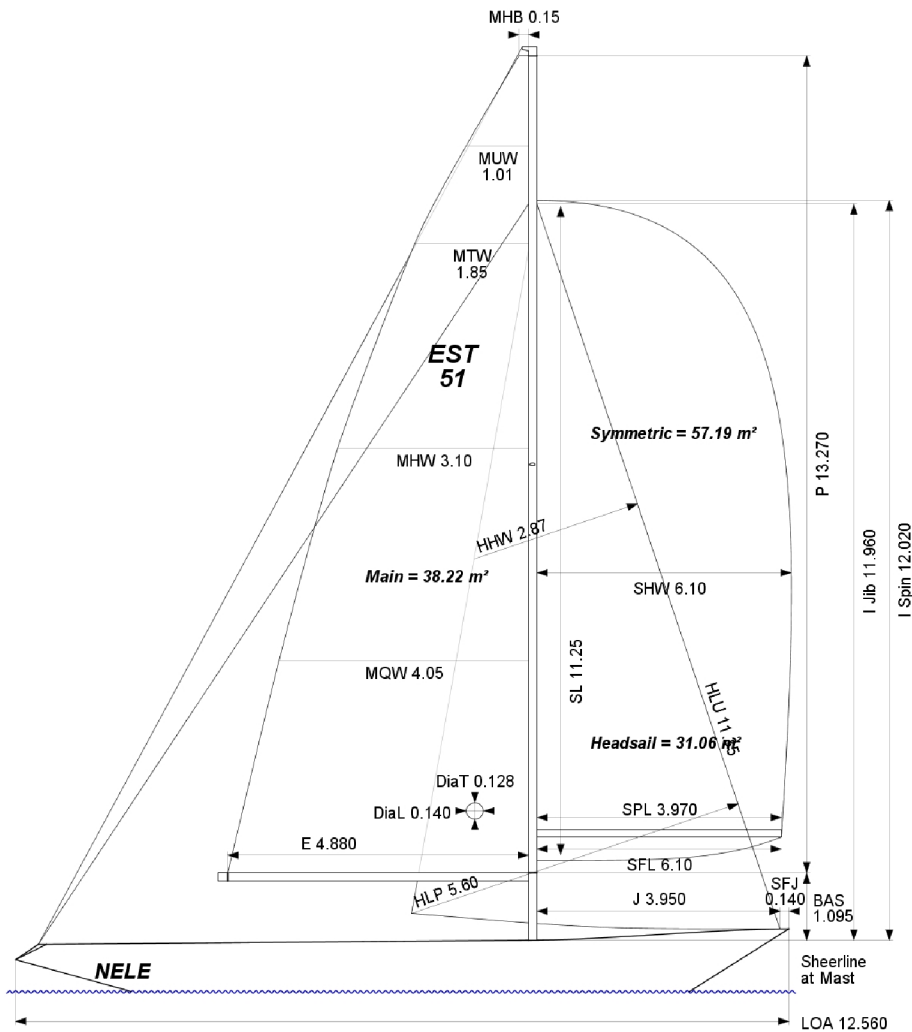




ORC
Offshore Racing Congress
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2020
ORC Club
Certificate

Rating Office

Estonian Yachting Union
Purje 8, maja 3
11911 Tallinn
Estonia



ESTONIAN
YACHTING
UNION

Certificate

Number **035/20**
Issued On **05/06/2020**
ORC Ref **03880000JW**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 550kg
Maximum **400kg**
Minimum* 300kg
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

ToD ToT
Non Spin GPH **710.5 0.8445**
Non Spin OSN **688.0 0.8721**

Sails Limitations

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

Spinnaker configuration
Symmetric: **Yes** 57.26
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length
CDL = 7.931

Stability (Estimated)
Limit Positive Stab.: **135.1°**
Stability Index: **141.6**

BOAT		GPH		HULL			
Name	NELE	688.0		Data File	EST51	LOA	12.560m
Sail Nr	EST-51			Offset File	L6_UKR.off	MB	2.772m
				Displacement	6,985kg	Draft	1.818m
CLASS				IMS Division	Cruiser/Racer	Dynamic All.	0.585%
Class	L6			Plan Review		Construction	Solid
Designer				Fiber Rigging	No	Aramid Core	No
Builder	VCSPS			Crew Arm Ex		Carbon Rudder	No
Series	01/1963					Light Stanchions	No
Age Date	01/1973			IMSL	9.023m	VCGD	-0.254m Sink 15.82kg/mm
Age Allowance	0.487%			RL	6.838m	VCGM	-0.272m WS 26.77m
COMMENTS				LSM0	8.546m	Displacement/Length ratio 11.1912	
				Water Ballast	0	Trim Tab	No
				BLR Index	0.0000		
PROPELLER				CENTERBOARD			
Installation	In Aperture	PRD	0.410	N/A			
Type	Solid 2 blades	PIPA	0.0082				
SCORING OPTIONS							
	COASTAL / LONG DISTANCE				WINDWARD / LEEWARD		
Time on Distance	667.8				750.0		
Time on Time	0.8985				0.9000		
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	802.7	605.9	534.1	1037.8	758.7	644.1	
Time on Time	0.8409	1.1141	1.2637	0.6504	0.8897	1.0480	

BOAT Name NELE Sail Nr EST-51 File EST51 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Club Estimated VCG Flotation date 05/06/2020 SG 1.0260 FFM 1.011 FF 1.011 SFFP 0.500 FAM 0.775 FA 0.775 SAFF 12.059 LCF from stem on CL / on sheer 6.305 / 6.457 Maximum beam station from stem 6.651 RM Measured 91.5kg·m RM Default 88.8kg·m Limit of positive stability / Stab.Index 135.1° / 141.6 Freeboard at mast at 4.090 0.834	
RIG Forestay Tension Fixed Spreaders 1 Inner Stay None Fitted Runners/Checkstays 1 Carbon Mast No Jib Furler No Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No P 13.270 E 4.880 MDT1 0.128 MW 0.140 IG 11.960 J 3.950 MDL1 0.140 GO 0.210 ISP 12.020 SFJ 0.140 MDT2 BD 0.130 BAS 1.095 SPL 3.970 MDL2 MWT FSD TPS TL MCG 			
MIZZEN RIG AND SAILS N/A		PROPELLER Installation In Aperture PRD 0.410 Type Solid 2 blades PBW Twin Screw PIPA 0.0082 APH APT APB	
COMMENTS 		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	0.15	1.01	1.85	3.10	4.05	38.22										
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.07	0.63	1.22	2.87	4.00	5.60	11.35	142%	31.06		No					
2	0.05	0.68	1.32	2.67	4.10	5.51	11.11	139%	30.23		No					
SYMMETRIC SPINNAKERS (2)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	11.25	11.25	11.25	6.10	6.10	57.19										
2	11.30	11.30	11.30	6.00	6.30	57.07										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				


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2020
Measurements
Datasheet


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ORC Club Certificate Appendix

BOAT			
Name	NELE	Certificate Number	035/20
Sail Nr	EST-51	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	1168.2	969.0	863.1	807.5	779.0	763.9	751.3
52°	765.3	646.0	571.5	537.7	524.2	517.3	511.8
60°	724.3	612.7	547.4	519.0	505.3	499.3	494.0
75°	694.7	586.8	531.7	507.0	490.5	479.9	471.3
90°	700.3	590.3	526.1	500.5	488.7	473.9	451.9
110°	714.9	587.6	523.0	495.1	475.1	458.8	443.7
120°	741.2	608.3	532.7	501.2	481.3	463.3	431.0
135°	828.8	676.1	576.3	523.4	497.3	477.8	441.5
150°	977.1	768.2	650.9	567.8	521.8	497.3	461.3
Run VMG	1128.2	885.8	748.6	651.0	578.7	530.2	484.5
Selected Courses							
Windward / Leeward	1148.2	927.4	805.8	729.2	678.8	647.0	617.9
Circular Random	958.6	769.6	666.8	606.4	569.2	545.5	517.9
Coastal / Long Distance	1146.2	870.9	720.5	628.1	579.1	544.0	491.4
Non Spinnaker	999.0	798.2	688.2	622.9	582.3	556.0	524.5

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°	41.3°	42.0°	42.8°	42.0°	41.6°	41.3°
Beat VMG	3.08	3.72	4.17	4.46	4.62	4.71	4.79
52°	4.70	5.57	6.30	6.70	6.87	6.96	7.03
60°	4.97	5.88	6.58	6.94	7.12	7.21	7.29
75°	5.18	6.14	6.77	7.10	7.34	7.50	7.64
90°	5.14	6.10	6.84	7.19	7.37	7.60	7.97
110°	5.04	6.13	6.88	7.27	7.58	7.85	8.11
120°	4.86	5.92	6.76	7.18	7.48	7.77	8.35
135°	4.34	5.32	6.25	6.88	7.24	7.53	8.15
150°	3.68	4.69	5.53	6.34	6.90	7.24	7.80
Run VMG	3.19	4.06	4.81	5.53	6.22	6.79	7.43
Gybe Angles	147.0°	152.0°	155.5°	156.0°	180.0°	180.0°	180.0°