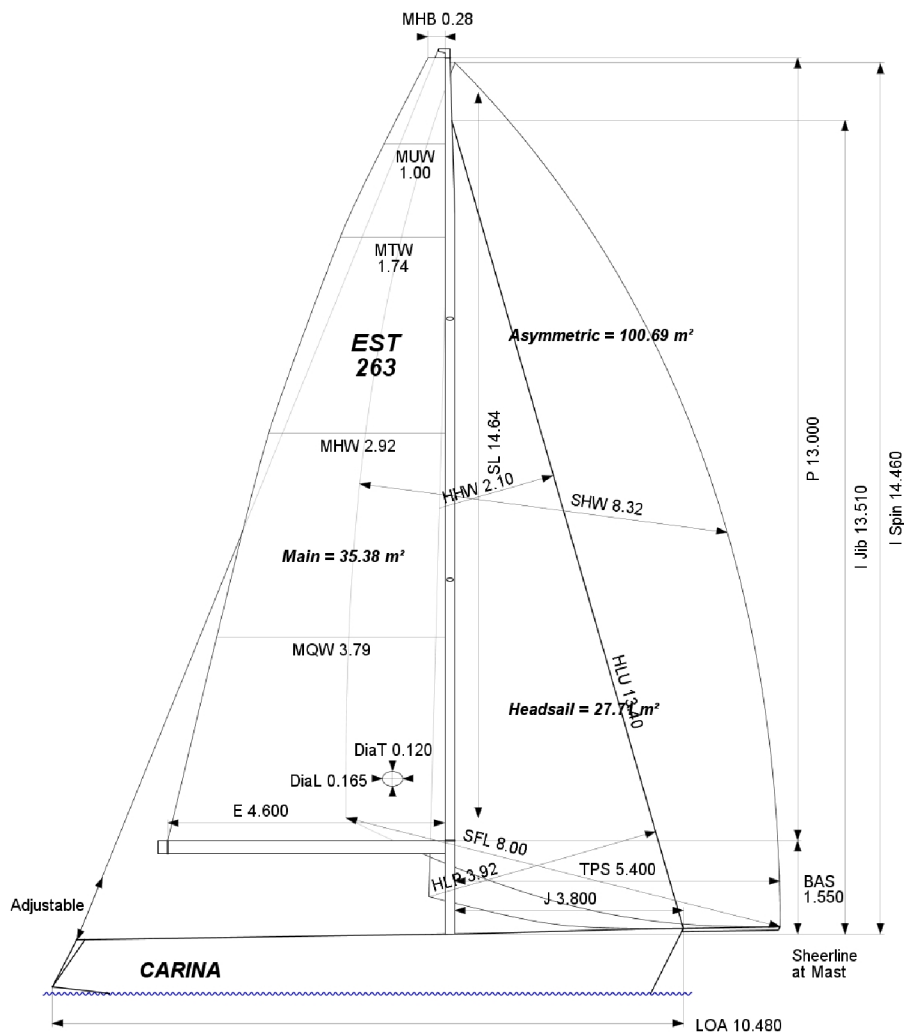




BOAT		GPH	HULL	
Name	CARINA	621.8	Data File	EST263
Sail Nr	EST-263		LOA	10.480m
CLASS			Offset File	EST263A.off
Class	ONE OFF		Displacement	4,350kg
Designer	Voorema		MB	3.848m
Builder	AS E&V Foils		Draft	2.132m
Series	05/1999		IMS Division	Cruiser/Racer
Age Date	05/1999		Dynamic All.	0.000%
Age Allowance	0.487%		Plan Review	Construction Solid
COMMENTS			Fiber Rigging	No
			Aramid Core	No
			Carbon Rudder	Yes
			Light Stanchions	No
			IMSL	9.140m
			VCGD	0.000m
			Sink	16.70kg/mm
			RL	8.595m
			VCGM	-0.018m
			WS	21.76m²
			LSM0	8.958m
			Displacement/Length ratio	
			Water Ballast	Trim Tab No
			BLR Index	0.0000
PROPELLER			CENTERBOARD	
Installation	Strut	PRD 0.432	N/A	
Type	Feathering 2 blades	PIPA 0.0030		

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	606.1			679.5		
Time on Time	0.9899			0.9934		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	699.6	554.4	500.4	899.3	680.6	605.2
Time on Time	0.9648	1.2176	1.3489	0.7506	0.9918	1.1154



Rating Office
Estonian Yachting Union
 Purje 8, maja 3
 11911 Tallinn
 Estonia



Certificate
 Number 051/20
 Issued On 05/06/2020
 ORC Ref 03880000K11
 VPP Ver. 2020 1.02
 Valid until 31/12/2020

Crew Weight
 Default 588kg
 Maximum 588kg
 Minimum* 441kg
 *when applied by the NoR and SI
 Non Manual Pwr No

Special Scoring
 ToD ToT
 Non Spin GPH 659.5 0.9098
 Non Spin OSN 640.5 0.9368

Sails Limitations
 Headsails 5 Spinnakers 4
 Asymmetric on centerline
 Spinnaker configuration
 Symmetric: No
 Asymmetric: Yes 100.69
 Flying H/S: No
 Spin. Pole: No

Class Division Length
 CDL = 8.865

Stability (Estimated)
 Limit Positive Stab.: 113.3°
 Stability Index: 108.6

COMMENTS	

MOVABLE BALLAST
N/A

CENTERBOARD	
	N/A



**ESTONIAN
YACHTING
UNION**

2020

ORC Club Certificate Appendix

BOAT			
Name	CARINA	Certificate Number	051/20
Sail Nr	EST-263	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	1028.2	856.9	760.9	720.3	706.3	700.9	689.2
52°	675.9	574.8	531.4	513.6	506.2	502.4	497.6
60°	640.5	552.9	519.0	502.0	492.2	487.1	483.9
75°	615.6	538.5	509.2	490.2	474.7	462.7	452.4
90°	620.5	530.0	498.2	483.0	467.2	449.7	425.5
110°	612.4	522.1	487.9	460.7	438.6	425.4	403.4
120°	629.2	529.9	492.5	463.1	435.4	411.8	380.4
135°	698.4	568.9	512.4	482.5	453.8	426.4	370.6
150°	822.9	659.5	563.2	518.2	494.5	474.3	426.4
Run VMG	950.2	761.5	650.3	597.5	560.4	519.8	473.2
Selected Courses							
Windward / Leeward	989.2	809.2	705.6	658.9	633.4	610.3	581.2
Circular Random	844.0	686.6	603.9	557.0	528.3	508.9	481.4
Coastal / Long Distance	985.3	761.0	640.0	576.5	541.5	510.5	460.1
Non Spinnaker	915.2	735.9	639.3	583.0	548.2	525.2	495.2

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	42.6°	40.9°	39.8°	38.3°	37.9°	37.9°	37.7°
Beat VMG	3.50	4.20	4.73	5.00	5.10	5.14	5.22
52°	5.33	6.26	6.78	7.01	7.11	7.17	7.23
60°	5.62	6.51	6.94	7.17	7.31	7.39	7.44
75°	5.85	6.69	7.07	7.34	7.58	7.78	7.96
90°	5.80	6.79	7.23	7.45	7.71	8.01	8.46
110°	5.88	6.90	7.38	7.81	8.21	8.46	8.92
120°	5.72	6.79	7.31	7.77	8.27	8.74	9.46
135°	5.15	6.33	7.03	7.46	7.93	8.44	9.71
150°	4.37	5.46	6.39	6.95	7.28	7.59	8.44
Run VMG	3.79	4.73	5.54	6.02	6.42	6.93	7.61
Gybe Angles	145.0°	148.0°	149.0°	150.8°	175.0°	177.0°	178.0°