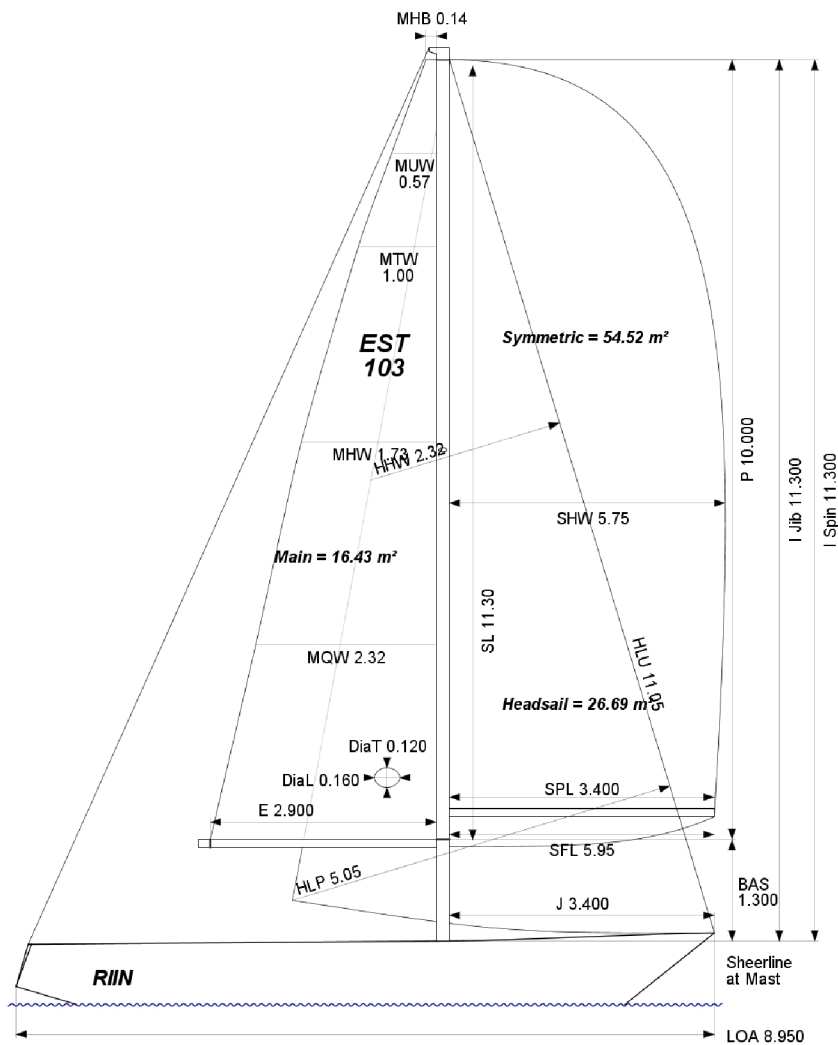




BOAT		GPH	HULL	
Name	RIIN	739.7	Data File	EST103
Sail Nr	EST 103		LOA	8.950m
CLASS			Offset File	EST103_CL.off
Class	APHRODITE 30		MB	2.750m
Designer			Displacement	3,675kg
Builder			Draft	1.602m
Series	01/1976		IMS Division	Cruiser/Racer
Age Date	01/1978		Dynamic All.	0.597%
Age Allowance	0.487%		Plan Review	Construction
COMMENTS			Fiber Rigging	No
			Aramid Core	No
			Crew Arm Ex	Carbon Rudder
			Light Stanchions	No
			IMSL	7.263m
			VCGD	-0.100m
			Sink	11.41kg/mm
			RL	5.949m
			VCGM	-0.049m
			WS	17.36m²
			LSM0	7.184m
			Displacement/Length ratio	9.9119
			Water Ballast	0
			Trim Tab	No
			BLR Index	0.0000
PROPELLER			CENTERBOARD	
Installation	Strut	PRD 0.400	N/A	
Type	Folding 2 blades	PIPA 0.0006		

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	717.7			798.2		
Time on Time	0.8360			0.8456		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	849.8	654.7	584.4	1089.8	805.0	694.4
Time on Time	0.7943	1.0310	1.1550	0.6194	0.8385	0.9720



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



Certificate
 Number 005/20
 Issued On 05/06/2020
 ORC Ref 03880000JU0
 VPP Ver. 2020 1.02
 Valid until 31/12/2020

Crew Weight
 Default 429kg
 Maximum 400kg
 Minimum* 300kg
 *when applied by the NoR and SI
 Non Manual Pwr

Special Scoring
 ToD ToT
 Non Spin GPH 772.9 0.7763
 Non Spin OSN 747.3 0.8029

Sails Limitations
 Headsails 5 Spinnakers 4
 Woven Polyester

Spinnaker configuration
 Symmetric: Yes 54.52
 Asymmetric: No
 Flying H/S: No
 Spin. Pole: Yes

Class Division Length
 CDL = 6.603

Stability (Estimated)
 Limit Positive Stab.: 117.7°
 Stability Index: 121.0

RIG									
Forestay Tension	Fixed					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	No								
P	10.000	E	2.900	MDT1	0.120	MW			
IG	11.300	J	3.400	MDL1	0.160	GO			
ISP	11.300	SFJ	0.000	MDT2		BD			
BAS	1.300	SPL	3.400	MDL2		MWT			
FSD	-2.000	TPS		TL	-3.000	MCG			

PROPELLER			
Installation	Strut	PRD	0.400
Type	Folding 2 blades	PBW	
Twin Screw	No	PIPA	0.0006
ST1	ST3	ST5	
ST2	ST4	EDL	

COMMENTS	

CENTERBOARD	
	N/A

Certificate
 Number **005/20**
 ORC Ref **03880000JU0**
 Issued On **05/06/2020**
 VPP Ver. **2020 1.02**
 Valid until **31/12/2020**



ESTONIAN
YACHTING
UNION

2020

ORC Club Certificate Appendix

BOAT

Name	RIIN	Certificate Number	005/20
Sail Nr	EST 103	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	1260.2	1058.0	940.5	865.8	833.5	820.4	818.3
52°	824.1	702.0	629.9	596.6	581.2	574.3	570.8
60°	780.8	665.0	607.2	581.2	566.8	558.2	552.9
75°	751.7	638.9	591.3	568.5	552.9	540.6	525.5
90°	760.8	641.3	581.8	557.5	547.7	533.6	508.9
110°	756.0	624.7	572.5	545.9	523.9	506.1	488.8
120°	776.5	638.8	578.0	549.5	526.2	504.2	472.6
135°	846.9	695.6	604.6	566.3	541.6	518.4	477.2
150°	982.1	786.6	670.8	598.5	565.4	542.6	500.3
Run VMG	1134.0	907.1	771.7	677.6	610.5	573.4	529.0
Selected Courses							
Windward / Leeward	1197.1	982.5	856.1	771.7	722.0	696.9	673.7
Circular Random	1018.6	822.9	717.6	656.4	619.2	595.8	568.6
Coastal / Long Distance	1190.8	922.6	770.6	676.5	629.3	595.3	542.9
Non Spinnaker	1078.3	865.2	749.1	680.6	638.4	611.6	580.7

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°	41.6°	41.6°	40.9°	40.3°	39.9°	40.3°
Beat VMG	2.86	3.40	3.83	4.16	4.32	4.39	4.40
52°	4.37	5.13	5.72	6.03	6.19	6.27	6.31
60°	4.61	5.41	5.93	6.19	6.35	6.45	6.51
75°	4.79	5.63	6.09	6.33	6.51	6.66	6.85
90°	4.73	5.61	6.19	6.46	6.57	6.75	7.07
110°	4.76	5.76	6.29	6.59	6.87	7.11	7.37
120°	4.64	5.64	6.23	6.55	6.84	7.14	7.62
135°	4.25	5.18	5.95	6.36	6.65	6.94	7.54
150°	3.67	4.58	5.37	6.02	6.37	6.64	7.20
Run VMG	3.17	3.97	4.66	5.31	5.90	6.28	6.80
Gybe Angles	148.0°	152.0°	153.0°	160.0°	180.0°	180.0°	180.0°