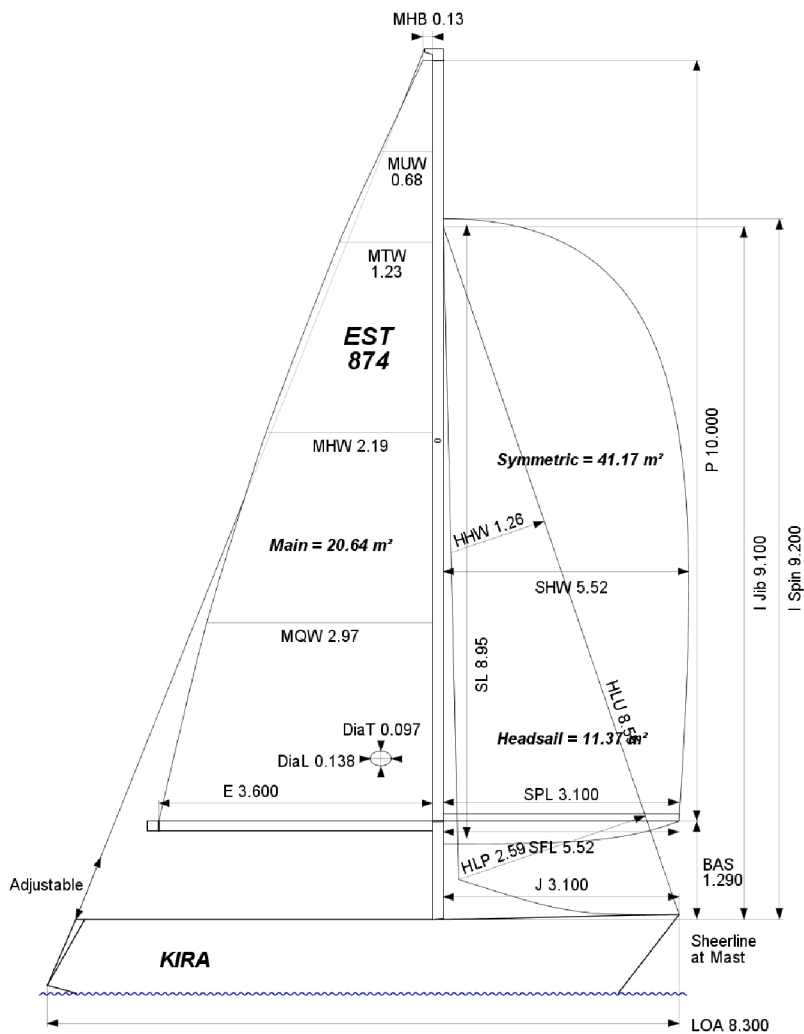




BOAT		GPH	HULL	
Name	Kira	782.8	Data File	EST874
Sail Nr	EST874		Offset File	fenix3.off
CLASS			Displacement	3,070kg
Class	FENIX		LOA	8.300m
Designer	Rootsi		MB	2.894m
Builder	Rootsi		Draft	1.583m
Series	01/1981		IMS Division	Cruiser/Racer
Age Date	01/1983		Plan Review	Dynamic All. 0.487%
Age Allowance	0.487%		Fiber Rigging	No
COMMENTS			Crew Arm Ex	No
PROPELLER			Light Stanchions	No
Installation	Strut	PRD 0.340	IMSL	7.147m
Type	Folding 2 blades	PIPA 0.0030	RL	4.849m
CENTERBOARD			VCGD	0.070m
			Sink	11.66kg/mm
			WS	17.10m²
			LSM0	7.060m
			Displacement/Length ratio	8.7242
			Water Ballast	Trim Tab No
			BLR Index	0.0000
			N/A	

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	758.6			847.8		
Time on Time	0.7909			0.7962		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	916.9	689.5	599.9	1193.0	860.7	719.6
Time on Time	0.7362	0.9789	1.1252	0.5658	0.7842	0.9380



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



Certificate
 Number 122/20
 Issued On 21/07/2020
 ORC Ref 03880000MTK
 VPP Ver. 2020 1.02
 Valid until 31/12/2020

Crew Weight
 Default 419kg
 Maximum 360kg
 Minimum* 270kg
 *when applied by the NoR and SI
 Non Manual Pwr No

Special Scoring
 ToD ToT
 Non Spin GPH 824.0 0.7282
 Non Spin OSN 791.7 0.7578

Sails Limitations
 Headsails 5 Spinnakers 4
 Woven Polyester

Spinnaker configuration
 Symmetric: Yes 41.17
 Asymmetric: No
 Flying H/S: No
 Spin. Pole: Yes

Class Division Length
 CDL = 5.995

Stability (Estimated)
 Limit Positive Stab.: 117.7°
 Stability Index: 116.5

BOAT Name Kira Sail Nr EST874 File EST874 Data in meters/kilograms		INCLINING TEST AND FREEBOARDS Inclining Test Enter VCG directly Flotation date 21/07/2020 SG 1.0262 VCGDe 0.070 FFM 1.035 FF 1.035 SFFP 0.649 FAM 0.972 FA 0.972 SAFF 7.803 LCF from stem on CL / on sheer 4.657 / 4.860 Maximum beam station from stem 5.374 RM Measured 52.9kg·m RM Default 50.0kg·m Limit of positive stability / Stab.Index 117.7° / 116.5 Freeboard at mast at 3.100 0.981	
RIG Forestay Tension Aft Spreaders 1 Inner Stay None Fitted Runners/Checkstays 0 Carbon Mast No Jib Furler Yes Fiber Rigging No Main Furler No Non-Circular Rigging No Articulated Bowsprit No P 10.000 E 3.600 MDT1 0.097 MW 0.000 IG 9.100 J 3.100 MDL1 0.138 GO 0.000 ISP 9.200 SFJ MDT2 0.000 BD BAS 1.290 SPL 3.100 MDL2 0.000 MWT FSD TPS 0.000 TL 0.000 MCG		PROPELLER Installation Strut PRD 0.340 Type Folding 2 blades PBW Twin Screw No PIPA 0.0030 ST1 0.048 ST3 0.170 ST5 0.250 ST2 0.170 ST4 0.098 EDL 1.600	
MIZZEN RIG AND SAILS N/A		MOVABLE BALLAST N/A	
COMMENTS 		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	2.19	2.97	20.64	EST7									
HEADSAILS (1)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
2	0.06	0.39	0.74	1.26	2.01	2.59	8.55	84%	11.37		No	EST7				
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	8.95	8.95	8.95	5.52	5.52	41.17	EST7			Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				


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Measurements
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2020

ORC Club Certificate Appendix

BOAT			
Name	Kira	Certificate Number	122/20
Sail Nr	EST874	Issued On	21/07/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1441.2	1185.0	1053.4	959.0	886.9	853.9	860.9
52°	928.3	775.7	691.9	635.8	604.4	589.5	585.3
60°	872.0	733.8	654.5	611.3	587.5	573.3	564.9
75°	825.5	691.7	615.9	586.1	573.0	557.3	535.4
90°	774.0	642.7	585.8	559.1	543.2	534.7	518.8
110°	770.1	637.6	582.6	553.9	528.4	505.8	480.8
120°	796.8	656.4	590.8	560.8	535.4	510.5	470.8
135°	894.9	725.0	623.5	580.0	553.5	528.5	483.1
150°	1039.7	821.4	693.2	614.1	577.4	552.8	506.8
Run VMG	1200.5	945.5	797.2	691.7	620.8	582.5	535.4
Selected Courses							
Windward / Leeward	1320.9	1065.2	925.3	825.3	753.9	718.2	698.1
Circular Random	1096.1	878.3	758.8	687.4	642.7	614.2	583.8
Coastal / Long Distance	1308.9	994.9	825.7	715.3	650.3	608.9	553.0
Non Spinnaker	1171.6	931.2	797.6	716.7	665.7	633.3	598.9

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	44.6°	43.5°	42.8°	42.6°	41.8°	40.7°	41.6°
Beat VMG	2.50	3.04	3.42	3.75	4.06	4.22	4.18
52°	3.88	4.64	5.20	5.66	5.96	6.11	6.15
60°	4.13	4.91	5.50	5.89	6.13	6.28	6.37
75°	4.36	5.20	5.85	6.14	6.28	6.46	6.72
90°	4.65	5.60	6.15	6.44	6.63	6.73	6.94
110°	4.67	5.65	6.18	6.50	6.81	7.12	7.49
120°	4.52	5.48	6.09	6.42	6.72	7.05	7.65
135°	4.02	4.97	5.77	6.21	6.50	6.81	7.45
150°	3.46	4.38	5.19	5.86	6.24	6.51	7.10
Run VMG	3.00	3.81	4.52	5.20	5.80	6.18	6.72
Gybe Angles	149.0°	153.5°	156.0°	170.0°	180.0°	180.0°	180.0°