



ORC
Offshore Racing Congress
World leader in rating technology

**2020
ORC Club
Certificate**

Rating Office

**EYU
Purje 8
11911, Tallinn
Estonia**

Certificate

Number **Est894**
Issued On **5/25/2020**
ORC Ref **03580001SB**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 412kg
Maximum **560kg**
Minimum* **420kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	794.7	0.7550
Non Spin OSN	765.2	0.7841

Sails Limitations

Headsails **5** Spinnakers **4**
Woven Polyester

Spinnaker configuration

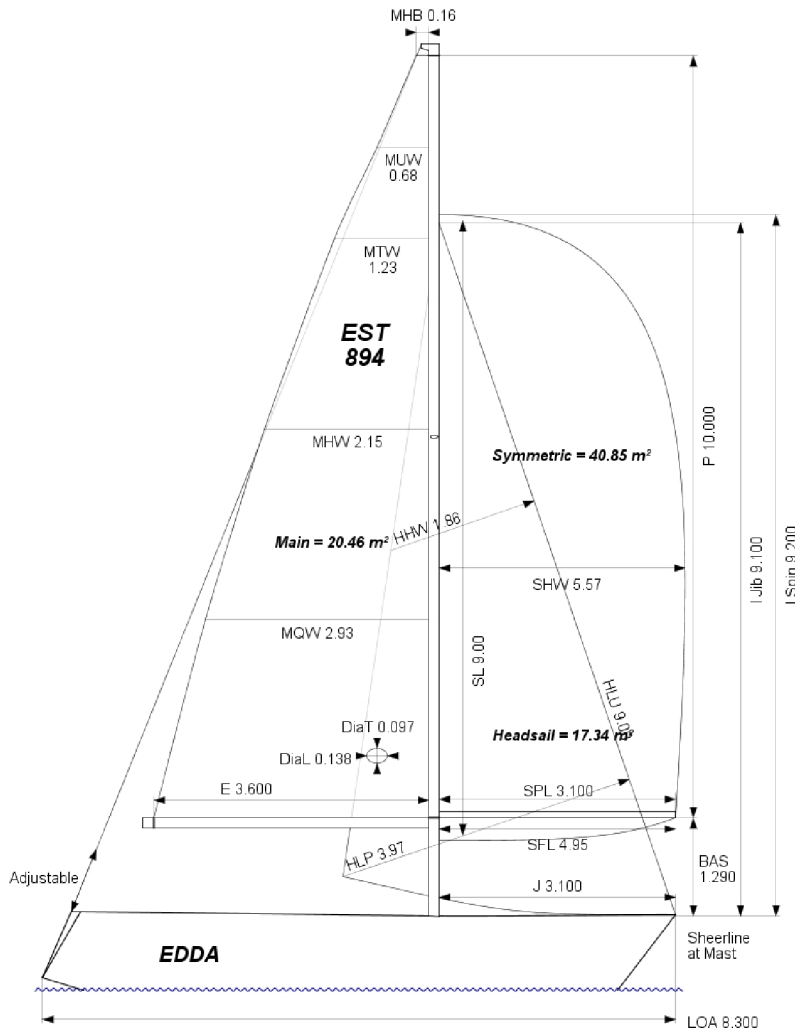
Symmetric: **Yes 40.84**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 6.261

Stability (Estimated)

Limit Positive Stab.: **118.4°**
Stability Index: **116.8**



BOAT		GPH		HULL			
Name	EDDA	762.8	Data File	Est0894	LOA	8.300m	
Sail Nr	EST894		Offset File	fenix3.off	MB	2.894m	
			Displacement	3,008kg	Draft	1.584m	
CLASS		IMS Division Cruiser/Racer				Dynamic All.	0.484%
Class	FENIX	Plan Review				Construction	Solid
Designer		Fiber Rigging				Aramid Core	No
Builder	MAXI	Crew Arm Ex				Carbon Rudder	No
Series	01/1981					Light Stanchions	No
Age Date	01/1984	IMSL	7.061m	VCGD	0.067m	Sink	11.38kg/mm
Age Allowance	0.487%	RL	5.459m	VCGM	0.045m	WS	16.88m²
COMMENTS		LSM0 6.976m Displacement/Length ratio					
		Water Ballast Trim Tab No					
		BLR Index 0.0000					
PROPELLER		CENTERBOARD					
Installation	Strut	PRD	0.340	N/A			
Type	Folding 2 blades	PIPA	0.0030				
SCORING OPTIONS							
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD			
Time on Distance	738.8			821.7			
Time on Time	0.8122			0.8215			
Triple Number	Low	Medium	High	Low	Medium	High	
Time on Distance	892.5	672.2	584.8	1156.4	833.4	696.2	
Time on Time	0.7563	1.0041	1.1543	0.5837	0.8099	0.9695	

BOAT	
Name EDDA	Sail Nr EST894
File Est0894	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Club Estimated VCG			
Flotation date 18/11/2019		SG	
FFM	FF	0.986	SFFP 0.649
FAM	FA	1.021	SAFP 7.803
LCF from stem on CL / on sheer		4.569 / 4.765	
Maximum beam station from stem		5.374	
RM Measured		50.3kg·m	
RM Default		48.8kg·m	
Limit of positive stability / Stab.Index		118.4° / 116.8	
Freeboard at mast at 3.100		0.966	



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2020
Measurements
Datasheet

RIG							
Forestay Tension	Aft	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	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		TL	0.000	MCG	

MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation	Strut	PRD	0.340
Type	Folding 2 blades	PBW	
Twin Screw	No	PIPA	0.0030
ST1	0.048	ST3	0.170
ST2	0.170	ST4	0.098
		ST5	0.250
		EDL	1.600

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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	0.16	0.68	1.23	2.15	2.93	20.46										
HEADSAILS (2)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Flying	Measurer	Meas.Date	Manufacture	Material	Comment
1	0.05	0.46	0.91	1.86	2.91	3.97	9.00	128%	17.34		No					
2	0.05	0.41	0.80	1.58	2.34	3.10	9.32	100%	14.63		No					
SYMMETRIC SPINNAKERS (1)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	9.00	9.00	9.00	5.57	4.95	40.85										
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

2020

ORC Club Certificate Appendix

BOAT			
Name	EDDA	Certificate Number	Est894
Sail Nr	EST894	Issued On	5/25/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1356.2	1126.3	997.3	903.8	840.1	812.7	812.0
52°	876.5	736.7	652.5	611.2	588.2	575.4	570.1
60°	825.7	695.8	623.8	593.3	574.4	560.6	550.9
75°	791.6	667.8	606.4	579.2	561.1	544.8	521.1
90°	775.1	639.7	583.4	555.7	534.7	521.9	506.2
110°	771.0	637.0	581.5	552.2	525.8	502.2	469.4
120°	797.6	655.8	590.1	559.9	534.0	508.7	468.0
135°	894.1	724.8	622.8	579.4	552.6	527.4	482.5
150°	1038.3	820.9	692.3	613.1	576.6	551.8	505.7
Run VMG	1199.0	944.6	796.4	690.5	619.5	581.5	534.1
Selected Courses							
Windward / Leeward	1277.6	1035.4	896.8	797.2	729.8	697.1	673.0
Circular Random	1066.6	855.4	739.6	670.3	626.7	598.6	566.5
Coastal / Long Distance	1269.7	969.0	802.4	695.2	634.8	595.6	541.2
Non Spinnaker	1122.2	895.3	769.7	694.1	646.3	615.4	580.4

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°	42.8°	43.5°	42.4°	40.1°	39.4°	39.8°
Beat VMG	2.65	3.20	3.61	3.98	4.29	4.43	4.43
52°	4.11	4.89	5.52	5.89	6.12	6.26	6.32
60°	4.36	5.17	5.77	6.07	6.27	6.42	6.53
75°	4.55	5.39	5.94	6.22	6.42	6.61	6.91
90°	4.64	5.63	6.17	6.48	6.73	6.90	7.11
110°	4.67	5.65	6.19	6.52	6.85	7.17	7.67
120°	4.51	5.49	6.10	6.43	6.74	7.08	7.69
135°	4.03	4.97	5.78	6.21	6.51	6.83	7.46
150°	3.47	4.39	5.20	5.87	6.24	6.52	7.12
Run VMG	3.00	3.81	4.52	5.21	5.81	6.19	6.74
Gybe Angles	149.0°	153.5°	156.0°	168.0°	180.0°	180.0°	180.0°