

GPH = 609.4 **CDL = 9.530**

BOAT

Class **ONE OFF**
Designer **CYD**
Builder **RIDAS YACHT OÜ**
Age Date **04/2018**
Series Date **04/2018**
Offset File **EST850.off**

HULL

Length Overall **11.312 m**
Maximum Beam **3.640 m**
Draft **1.988 m**
Displacement **5,930 kg**
DLR **5.9708**
IMS Division **Cruiser/Racer**
Dynamic Allowance **0.179%**
Age Allowance **0.098%**

PROPELLER

Installation **Strut**
Type **Folding 2 blades**
Diameter **0.405m**

CREW

Maximum weight **700 kg**
Minimum weight **525 kg * when applied**
Non Manual Power **No**
Crew Arm Extension

SAIL AREAS (m²)

	Measured	Rated
Mainsail	41.12	41.72
Headsail Luffed	35.94	35.94
Headsail Flying		
Symmetric	101.79	101.79
Asymmetric		

SAIL LIMITATIONS

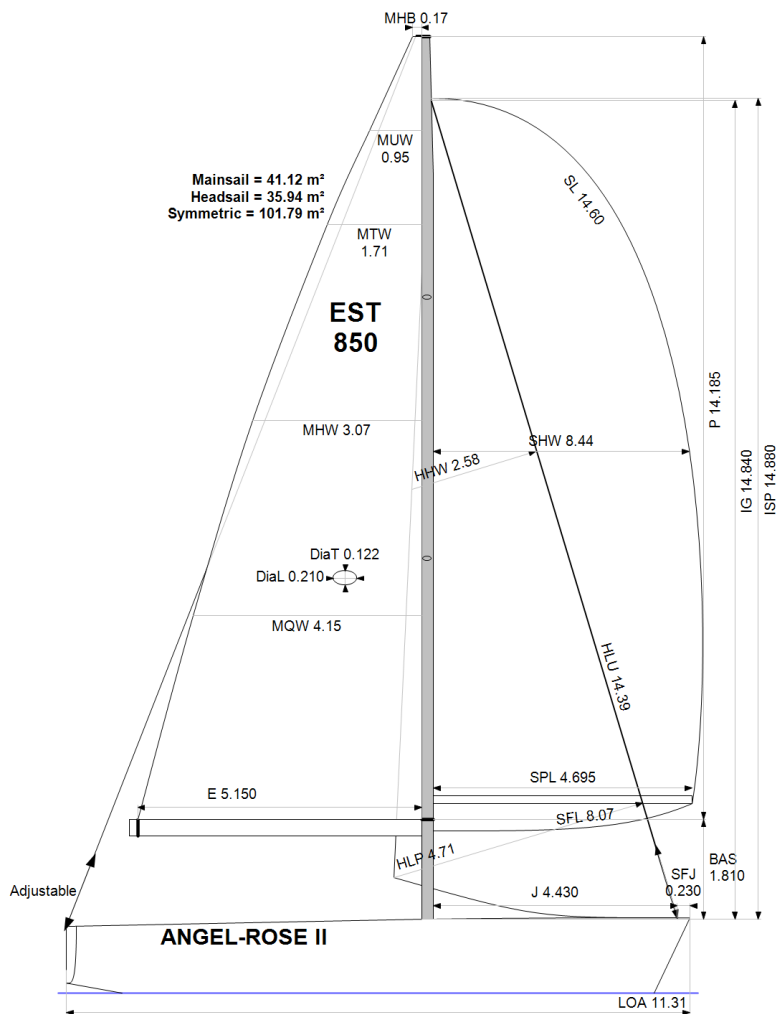
Headsails **5**
Spinnakers **4**

STABILITY

Righting Moment **156.9 kg·m**
Stability Index **120.4**

OWNER

The owner certifies that he/she understands his/her responsibilities under ORC Rule and Regulations.



Rated boat velocities in knots

Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43.5°	42.0°	40.9°	39.8°	40.1°	40.1°	40.3°
Beat VMG	3.43	4.17	4.75	5.09	5.21	5.26	5.32
52°	5.29	6.30	7.02	7.37	7.50	7.55	7.61
60°	5.62	6.63	7.25	7.57	7.73	7.80	7.84
75°	5.90	6.89	7.42	7.74	8.01	8.21	8.35
90°	5.82	6.88	7.53	7.81	8.09	8.41	8.91
110°	5.81	7.03	7.66	8.12	8.56	8.84	9.30
120°	5.65	6.89	7.58	8.05	8.55	9.05	9.79
135°	5.11	6.31	7.22	7.73	8.18	8.67	9.79
150°	4.29	5.41	6.43	7.23	7.71	8.12	9.04
Run VMG	3.71	4.69	5.56	6.33	6.97	7.51	8.32
Gybe Angles	145.0°	149.0°	150.0°	156.0°	171.0°	180.0°	180.0°

Time Allowances in secs/NM							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1048.7	862.4	757.5	707.8	691.2	684.9	677.2
52°	680.7	571.1	513.2	488.7	480.2	476.7	473.0
60°	640.4	543.0	496.7	475.9	465.8	461.6	459.0
75°	610.5	522.7	485.1	464.8	449.4	438.5	431.2
90°	618.8	522.9	478.2	461.1	445.1	427.9	403.9
110°	619.9	512.3	469.7	443.3	420.4	407.3	386.9
120°	637.1	522.8	474.8	447.2	420.9	397.7	367.9
135°	704.4	570.2	498.5	465.6	440.1	415.0	367.8
150°	839.9	665.1	560.3	497.7	467.1	443.3	398.0
Run VMG	969.8	768.0	647.0	568.4	516.7	479.6	432.9
Selected Courses							
Windward / Leeward	1009.3	815.2	702.2	638.1	604.0	582.2	555.0
All purpose	773.3	634.3	560.3	521.3	498.9	482.3	460.1

Single Number Scoring Options		
Course	Time On Distance	Time On Time
Windward / Leeward	670.6	0.8947
All purpose	541.6	1.1079

Custom scoring options for Estonia

Single Number	Time On Distance	Time On Time
Coastal/Long Distance	591.5	1.0144
Triple Number Coastal/Long Distance Low	703.8	0.8525
Triple Number Coastal/Long Distance Medium	538.1	1.1150
Triple Number Coastal/Long Distance High	478.1	1.2549
Triple Number Windward/Leeward Low	912.3	0.6577
Triple Number Windward/Leeward Medium	665.7	0.9013
Triple Number Windward/Leeward High	577.5	1.0390

Performance Curve	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Coastal/Long Distance	1005.3	764.8	632.1	556.8	518.3	487.5	438.3



Data in meters/kilograms (Metric)

HULL AND APPENDAGES

Class	ONE OFF	LOA	11.312	VCGD	-0.001
Measurement	25/06/2019	Max. Beam	3.640	VCGM	0.062
Measurer		Draft	1.988	RM Measured (kg·m)	156.9
HIN		Displacement	5.930	RM Default (kg·m)	160.7
Plan review		Wetted area	27.70	Limit of positive stability(°)	120.8
Hull construction	Cored	IMS L	10.174	Stability Index	120.4
Carbon Rudder	Yes	LSM0	9.977		
Light stanchions	No	Acc. length	11.312		
Trim tab	No	Sink (kg/mm)	21.07		

PROPELLER

Propeller Type	Folding 2 blades	PRD	0.405	EDL	1.830	ST3	0.180
Installation	Strut	PBW	0.106	ST1	0.050	ST4	0.110
Twin screw	No			ST2	0.180	ST5	0.300
PIPA	0.0036						

RIG

Forestay tension	Aft & Forward	P	14.185	E	5.150
Inner stay	None Fitted	IG	14.840	J	4.430
Carbon mast	Yes	ISP	14.880	BAS	1.810
Headsail furler	No	MDT1	0.122	FSD	0.034
Mainsail furler	No	MDL1	0.210	SFJ	0.230
Articulated bowsprit	No	MDT2	0.104	SPL	4.695
Non-circular rigging	No	MDL2	0.143	TPS	4.470
Fiber rigging	No	TL	2.520	BD	0.300
Runners/Checkstays	0	MW	0.175	MWT	138.00
Spreaders	2	GO	0.200	MCG	4.720

FLOTATION AND STABILITY

Inclining Test	Poles Inclining	SFFP	0.000	SAFP	11.312	W1	88.0	PD1	547.0	WD	12.420
Flotation Date	09/06/2021	FFM	1.135	FAM	0.722	W2	88.0	PD2	548.6	PLM	9000.00
Measurer		FF	1.141	FA	0.733	W3	88.0	PD3	548.7	GSA	1.0
Comment	Tallinn - Pirita	LCFcl	6.282	LCFsh	6.505	W4	88.0	PD4	549.4	RSA	1.0
		SG	1.0000	HBI	1.341						

MEASUREMENT INVENTORY

Id	Tank Type	Capacity	LCG	VCG	Condition	Description
1	Fuel st.steel	80.0	9.36		25.0	
2	Water neopr. bag	55.0	5.76		0.0	Port.
3	Sewage neopr. bag	55.0	3.76		0.0	Port
Id	Item Description	Weight	LCG	VCG		
1	Battery 2x105 Ah "Banner"		8.36			
1	Miscellaneous autopilot "Jefa"		10.30			
2	Miscellaneous "Eberspächer"		10.80			



MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Maker	Material	Comment
2a	0.17	0.95	1.71	3.07	4.15	41.12		25/06/2019	NorthSails	Unknown	3Di Nordac

HEADSAIL

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Btn	Flying	FT	Area	Measurer	Meas.Date	Maker	Material	Comment
7a	0.13	0.76	1.41	2.56	3.66	4.73	14.38	No	No		35.93		25/06/2019	North Sails	Unknown	JibTop
1a	0.12	0.79	1.47	2.58	3.59	4.71	14.39	No	No		35.94		25/06/2019	North Sails	Unknown	Light 3DL
2a	0.12	0.77	1.45	2.56	3.59	4.70	14.40	No	No		35.79		25/06/2019	North Sails	Unknown	Light/Medium 3Di
3a	0.10	0.80	1.47	2.53	3.52	4.66	14.42	No	No		35.50		25/06/2019	North Sails	Unknown	Medium 3Di
4a	0.10	0.58	1.10	2.13	3.19	4.26	13.31	No	No		28.56		25/06/2019	North Sails	Unknown	Heavy 3Di
9	0.10	0.67	1.25	2.35	3.48	4.62	12.00	No	No		28.25		24/01/2020	North Sails	Unknown	J3.5
5	0.08	0.47	0.86	1.69	2.59	3.50	13.20	No	Inner		22.89				Unknown	Staysail

SYMMETRIC SPINNAKER

Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Maker	Material	Comment
4a	14.60	14.60	14.60	8.44	8.07	101.79		25/06/2019		Unknown	S2 Sugar