

BOAT Name Eesti Meedia ST Sail Nr EST 850	GPH 602.3	HULL Length Overall 11.312m Maximum Beam 3.640m Displacement 5,927kg Draft 1.987m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0.060% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder Yes Crew Arm Extension
GENERAL Class ONE OFF Designer CYD Builder RIDAS YACHT OÜ Series 04/2018 Age 04/2018 Age Allowance 0.000% Offset File est850.off - 11/06/2018 19:58:42 Measurement by Tagu - 31/05/2018		IMSL 10.171m VCGD 0.016m Sink 21.07kg/mm RL 8.935m VCGM 0.080m WS 27.34m² LSM0 9.959m Displacement/Length ratio 6.0005



World Leader in Rating Technology

2018
ORC International
Certificate

Rating Office

Offshore
Racing
Congress



World Leader In Rating Technology

SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	585.5			656.6		
Time on Time	1.0248			1.0280		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	691.9	532.7	476.0	895.0	658.2	575.4
Time on Time	0.9756	1.2672	1.4182	0.7542	1.0256	1.1731

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1027.0	846.7	746.7	706.4	691.6	686.7	679.4
52°	670.1	560.7	506.5	486.1	479.4	476.6	472.2
60°	633.4	534.5	491.0	472.8	465.2	461.6	457.9
75°	606.3	516.9	480.5	460.9	446.6	438.1	432.1
90°	612.2	515.2	475.1	458.9	440.3	423.4	403.1
110°	611.1	505.5	465.2	439.2	419.0	406.8	386.4
120°	626.3	515.4	470.3	442.2	415.8	392.9	366.7
135°	690.0	558.9	491.3	460.3	434.1	408.7	359.5
150°	822.4	655.2	550.5	490.4	461.6	437.4	391.5
Run VMG	949.6	756.5	635.7	558.5	509.5	474.6	427.6

Certificate

Number **EST850**
ORC Ref **EST00000208**
Issued On **19/06/2018**
VPP Ver. **2018 1.00**
Valid until **31/12/2018**

Crew Weight

Default **684kg**
Maximum **755kg**
Minimum* **566kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Double H.GPH	606.1	0.9900
Double H.OSN	591.1	1.0150
Non Spin GPH	635.4	0.9443
Non Spin OSN	616.7	0.9729

Selected Courses							
Windward / Leeward	988.3	801.6	691.2	632.5	600.5	580.6	553.5
Circular Random	830.5	669.9	584.1	534.7	504.6	484.8	459.3
Coastal / Long Distance	984.5	752.3	623.0	552.4	515.0	484.8	436.6
Non Spinnaker	889.6	711.8	615.4	559.1	524.5	502.1	473.9

Sails Limitations

Headsails	Spinnakers
5	3

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	43.4°	42.1°	41.2°	40.2°	40.4°	40.4°	40.9°
Beat VMG	3.51	4.25	4.82	5.10	5.21	5.24	5.30
52°	5.37	6.42	7.11	7.41	7.51	7.55	7.62
60°	5.68	6.74	7.33	7.61	7.74	7.80	7.86
75°	5.94	6.97	7.49	7.81	8.06	8.22	8.33
90°	5.88	6.99	7.58	7.85	8.18	8.50	8.93
110°	5.89	7.12	7.74	8.20	8.59	8.85	9.32
120°	5.75	6.99	7.65	8.14	8.66	9.16	9.82
135°	5.22	6.44	7.33	7.82	8.29	8.81	10.01
150°	4.38	5.49	6.54	7.34	7.80	8.23	9.19
Run VMG	3.79	4.76	5.66	6.45	7.07	7.59	8.42
Gybe Angles	140.4°	148.7°	149.2°	156.5°	172.2°	180.0°	180.0°

Class Division Length

CDL = **9.553**

Storm Sails Areas


Heavy Weather Jib **30.07**
Storm Jib (JL=9.70) **11.14**
Storm Trysail **12.97**

Owner

BOAT			
Name	Eesti Meedia ST	Sail Nr	EST 850
File	Est0850	Data in	meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date		31/05/2018	SG 1.0000
FFM	1.135	FF	1.143 SFFP 0.000
FAM	0.724	FA	0.731 SAFF 11.312
W1	90.5	PD1	562.8 WD 12.220
W2	90.5	PD2	560.5 GSA 1.0
W3	90.5	PD3	567.3 RSA 1.0
W4	90.5	PD4	561.6 PLM 9000.0
LCF from stem on CL / on sheer		6.290 / 6.510	
Maximum beam station from stem		8.500	
RM Measured		154.7kg·m	
RM Default		162.7kg·m	
Limit of positive stability / Stab.Index		120.0° / 119.5	
Freeboard at mast at 4.660		1.342	

RIG			
Forestay Tension	Aft & Forward	Spreaders	2
Inner Stay	None Fitted	Runners	0
Carbon Mast	Yes	Jumper Struts	None
Taper Hollows	No	Jib Furler	No
Fiber Rigging	No	Main Furler	No
Lenticular Rigging	No	Without Backstay	No
Articulated Bowsprit	No		
P	14.255	E	5.200 MDT1 0.122 MW 0.175
IG	14.840	J	4.430 MDL1 0.210 GO 0.200
ISP	14.880	SFJ	0.230 MDT2 0.104 BD 0.300
BAS	1.810	SPL	4.650 MDL2 0.143 MWT 138.00
FSP	0.068	TPS	TL 2.520 MCG 4.720




World Leader in Rating Technology

2018

IMS Measurement Certificate

Certificate

Number **EST850**
 ORC Ref **EST00000208**
 Issued On **19/06/2018**
 VPP Ver. **2018 1.00**
 Valid until **31/12/2018**



World Leader In Rating Technology

MIZZEN RIG AND SAILS			
N/A			

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

COMMENTS			

MOVABLE BALLAST			
N/A			

CENTERBOARD			
N/A			

SAILS (Maximum Areas)									
Mainsail	MHB	MUW	MTW	MHW	MQW	Area	Area (r)	Formula	
	0.390	1.21	2.03	3.36	4.35	44.67	45.70	P/8 · (E + 2·MQW + 2·MHW + 1.5·MTW + MUW + 0.5·MHB)	
Symmetric	SLU	SLE	SL	SHW	SFL	110.35		SL · (SFL + 4·SHW) / 6	
	15.00	15.00	15.00	8.92	8.46				
Asymmetric	Not Available								

HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0.11	0.79	1.42	2.58	3.68	4.76	14.62	36.79				Unknow	JibTop
0.12	0.80	1.49	2.61	3.62	4.72	14.52	36.55			18/06/2018	Unknow	Light 3DL
0.10	0.80	1.47	2.55	3.54	4.70	14.65	36.30				Unknow	Medium 3Di
0.13	0.78	1.45	2.56	3.60	4.71	14.46	36.02			18/06/2018	Unknow	Light/Medium 3Di
0.12	0.86	1.55	2.65	3.62	4.45	14.27	35.66				Unknow	J-Light Sugar
0.10	0.59	1.13	2.19	3.26	4.32	13.60	29.80				Unknow	Heavy 3Di
0.08	0.47	0.86	1.69	2.59	3.50	13.20	22.89				Unknow	Staysail

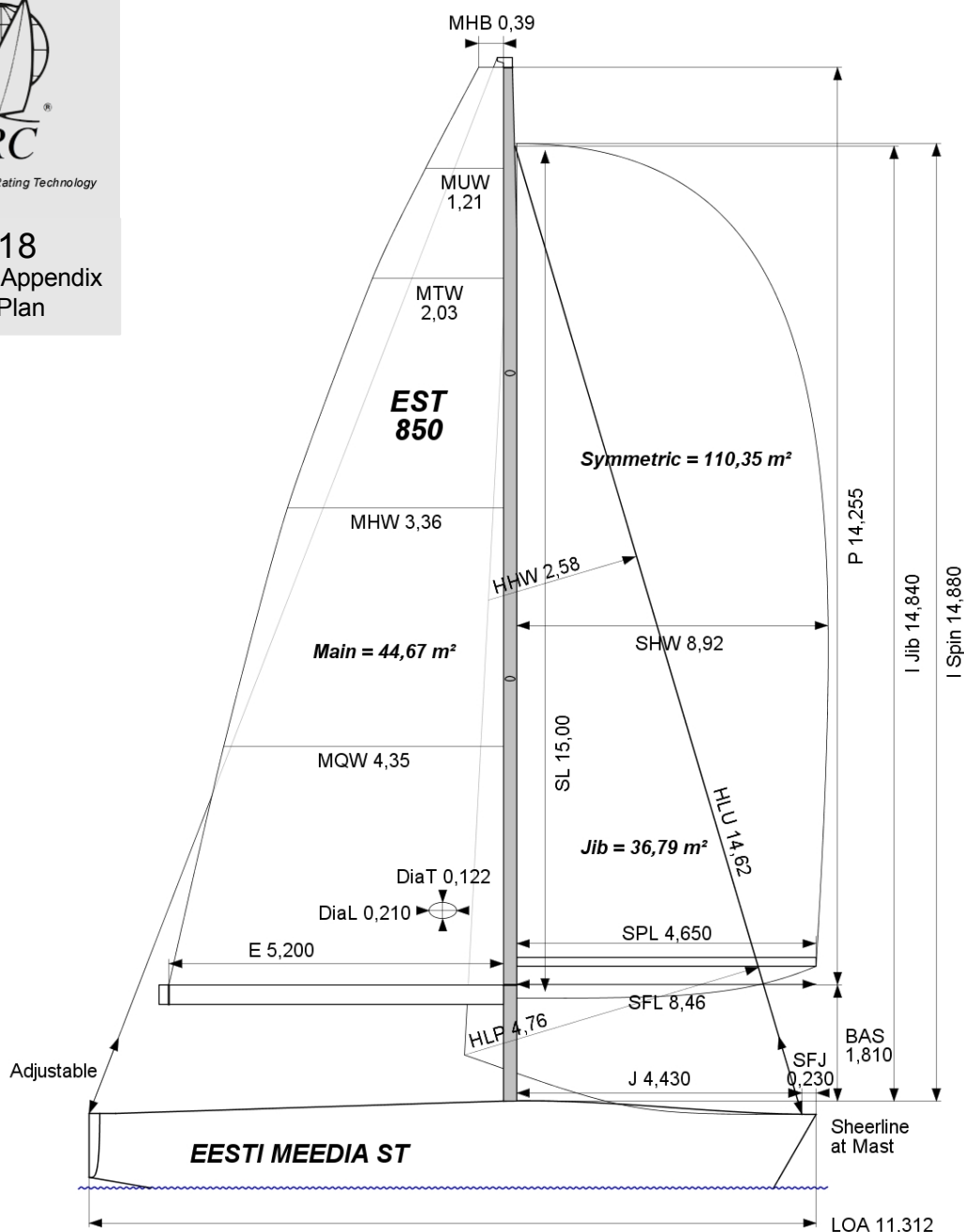
MEASUREMENT INVENTORY				
Measurer Karl-Hannes Tagu EST 7				
Date 31/05/2018				
Comment Tallinn - Pirta				
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>
<i>Id</i>	<i>Item</i>	<i>Maker</i>	<i>Model</i>	
1	Engine	Yanmar	3YM30AE	
<i>Id</i>	<i>Item</i>	<i>Weight Description</i>		

MEASUREMENT INVENTORY						
<i>Id</i>	<i>Item</i>	<i>Tank Use</i>	<i>Tank Type</i>	<i>Capcty</i>	<i>Dist.</i>	<i>VCG Condtn Description</i>
1	Tank fuel		st.steel	80.0	9.36	5-0
2	Tank water		neopr. bag	55.0	5.76	0-0 ports.
3	Tank sewage		neopr. bag	55.0	3.76	0-0 ports.
<i>Id</i>	<i>Item</i>	<i>Weight</i>	<i>Distance</i>	<i>VCG Description</i>		
1	Battery		8.36	2x105 Ah "Banner"		
1	Misc		10.30	autopilot "Jefa"		
2	Misc		10.80	"Eberspächer"		



World Leader in Rating Technology

2018
Certificate Appendix
Sail Plan



SAILS INVENTORY																
MAINSAIL (2)																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measur	Meas.Date	Manufacture	Material	Comment					
1	0.390	1.21	2.03	3.36	4.35	44.67	EST 2	18/06/2018	NorthSails	Carbon	3Di 780					
2	0.175	0.95	1.73	3.09	4.18	41.65				Unknown	3Di Nordac					
HEADSAILS (7)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measur	Meas.Date	Manufacture	Material	Comment
7	0.11	0.79	1.42	2.58	3.68	4.76	14.62	107%	36.79						Unknown	JibTop
1	0.12	0.80	1.49	2.61	3.62	4.72	14.52	107%	36.55			EST 2	18/06/2018		Unknown	Light 3DL
3	0.10	0.80	1.47	2.55	3.54	4.70	14.65	106%	36.30						Unknown	Medium 3Di
2	0.13	0.78	1.45	2.56	3.60	4.71	14.46	106%	36.02			EST 2	18/06/2018		Unknown	Light/Medium 3Di
6	0.12	0.86	1.55	2.65	3.62	4.45	14.27	100%	35.66						Unknown	J-Light Sugar
4	0.10	0.59	1.13	2.19	3.26	4.32	13.60	98%	29.80						Unknown	Heavy 3Di
5	0.08	0.47	0.86	1.69	2.59	3.50	13.20	79%	22.89						Unknown	Staysail
SYMMETRIC SPINNAKERS (4)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measur	Meas.Date	Manufacture	Material	Comment					
2	15.00	15.00	15.00	8.92	8.46	110.35	EST 2	18/06/2018		Unknown	S2					
1	15.10	15.10	15.10	8.74	8.68	109.83				Unknown	S1.5					
4	14.70	14.70	14.70	8.51	8.18	103.44				Unknown	S2 Sugar					
3	15.04	15.04	15.04	8.11	8.66	103.02				Unknown	S3					
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measur	Meas.Date	Manufacture	Material	Comment				