



World Leader in Rating Technology

2018 ORC Club Certificate

Rating Office

EYU
Regati 1
11911, Tallinn
Estonia

Certificate

Number **EST462**
Issued On **6/11/2018**
ORC Ref **EST00000173**
VPP Ver. **2018 1.00**
Valid until **12/31/2018**

Crew Weight

Default	590kg
Maximum	700kg
Minimum*	525kg
*when applied by the NoR and SI	
Non Manual Pwr	No

Special Scoring

	ToD	ToT
Double H.GPH	647.1	0.9272
Double H.OSN	629.6	0.9529
Non Spin GPH	677.8	0.8852
Non Spin OSN	654.9	0.9162

Sails Limitations

Headsails **5** Spinnakers **3**

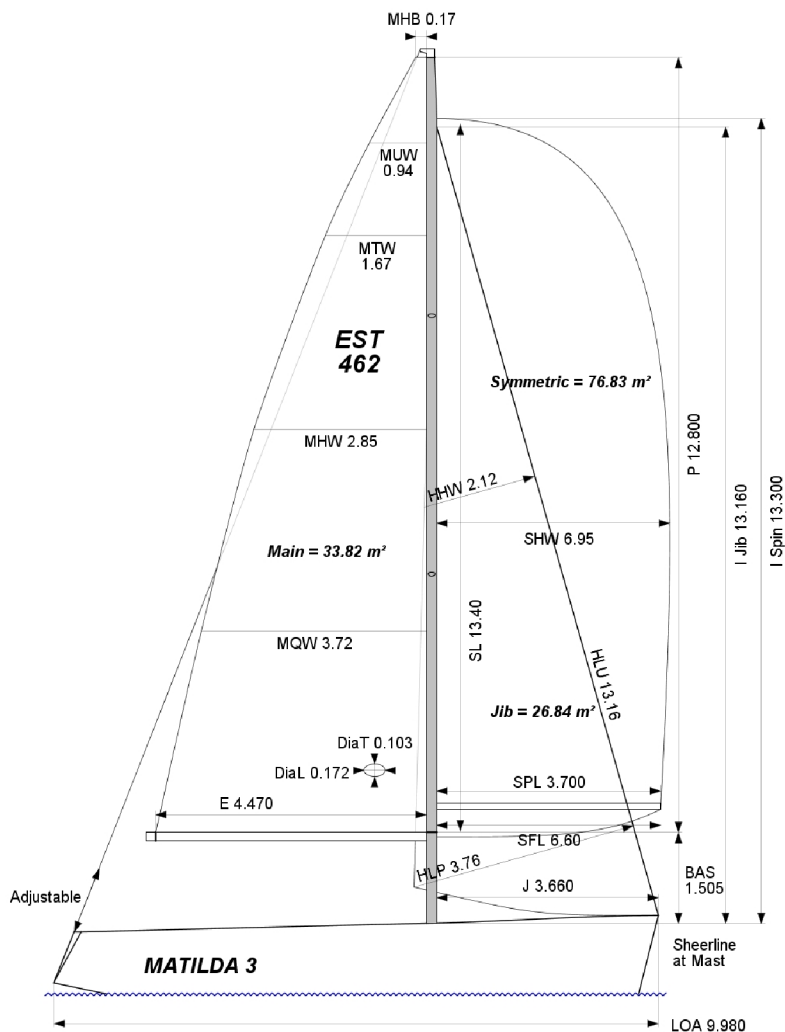
Spinnaker configuration
Symmetric: **Yes** **76.83**
Asymmetric: **No**
Flying H/S: **No**
Spin. Pole: **Yes**

Class Division Length

CDL = 8.665

Stability (Measured)

Limit Positive Stab.: **128.7°**
Stability Index: **128.3**



BOAT		GPH		HULL		
Name	Matilda 3		643.8	Data File	Est0462 LOA 9.980m	
Sail Nr	EST 462			Offset File	F235.OFF MB 3.372m	
				Displacement	4,634kg Draft 2.000m	
CLASS				IMS Division	Cruiser/Racer Dynamic All. 0.207%	
Class	First 34.7			Fwd Accom.	No Construction Cored	
Designer	Farr			Fiber Rigging	No Aramid Core No	
Builder	Beneteau			Crew Arm Ex	No Carbon Rudder No	
Series	10/2005			Light Stanchions No		
Age Date	06/2007			IMSL	9.120m VCGD -0.132m Sink 16.52kg/mm	
Age Allowance	0.422%			RL	8.208m VCGM -0.118m WS 22.22m²	
COMMENTS				LSM0	8.970m Displacement/Length ratio 6.4206	
				Water Ballast	0 Trim Tab No	
				BLR Index	0.0000	
PROPELLER				CENTERBOARD		
Installation	Strut	PRD	0.410	N/A		
Type	Folding 2 blades	PBW	0.118			
		PIPA	0.0030			
SCORING OPTIONS						
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time on Distance	624.0			694.4		
Time on Time	0.9615			0.9720		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	742.7	568.7	506.0	956.4	697.7	604.1
Time on Time	0.9089	1.1869	1.3339	0.7058	0.9675	1.1173

BOAT	
Name Matilda 3	Sail Nr EST 462
File Est0462	Data in meters/kilograms

INCLINING TEST AND FREEBOARDS			
Inclining Test Current Inclining			
Flotation date 03/07/2007		SG 1.0020	
FFM 1.295	FF 1.306	SFFP 0.172	
FAM 1.029	FA 1.035	SAFP 9.530	
W1 62.4	PD1 203.0	WD 9.780	
W2 62.4	PD2 204.0	GSA 12.6	
W3 62.4	PD3 203.0	RSA 4298.7	
W4 62.4	PD4 204.0	PLM 2005.0	
LCF from stem on CL / on sheer		5.409 / 5.642	
Maximum beam station from stem		6.642	
RM Measured		104.9kg·m	
RM Default		99.7kg·m	
Limit of positive stability / Stab.Index		128.7° / 128.3	
Freeboard at mast at 3.660		1.165	



2018
Measurements
Datasheet

RIG			
Forestay Tension Aft	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 12.800	E 4.470	MDT1 0.103	MW 0.172
IG 13.160	J 3.660	MDL1 0.172	GO 0.197
ISP 13.300	SFJ 0.000	MDT2 0.103	BD 0.132
BAS 1.505	SPL 3.700	MDL2 0.140	MWT 106.00
FSP 0.066	TPS	TL 1.000	MCG 4.740

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MIZZEN RIG AND SAILS	
N/A	

PROPELLER			
Installation Strut	PRD 0.410		
Type Folding 2 blades	PBW 0.118		
Twin Screw No	PIPA 0.0030		
ST1 0.035	ST3 0.185	ST5 0.280	
ST2 0.185	ST4 0.100	EDL 1.790	

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					
4a	0.170	0.94	1.67	2.85	3.72	33.82	EST 1	10/10/2016	NorthSails	Unknown						
HEADSAILS (5)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
9a	0.12	0.65	1.18	2.12	2.99	3.76	13.16	103%	26.85			EST 7	06/06/2018		Unknown	Jib Light
8a	0.10	0.58	1.09	2.05	2.94	3.75	13.00	102%	25.83			EST 1	10/10/2016	NorthSails	Unknown	Medium 2016
7a	0.11	0.58	1.09	2.06	2.94	3.75	12.93	102%	25.73			EST 1	13/06/2017		Unknown	Blast reacher
5b	0.10	0.58	1.08	2.02	2.90	3.72	12.95	102%	25.44			EST 1	13/06/2017		Unknown	Light 2013
3	0.10	0.48	0.89	1.74	2.62	3.55	12.54	97%	22.17			D206	14/12/2007		Unknown	
SYMMETRIC SPINNAKERS (6)																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	13.40	13.40	13.40	6.95	6.60	76.83				Unknown	S2					
5	13.34	13.34	13.34	6.92	6.86	76.79	Hemamali	01/11/2017		Unknown	S1,5					
4	13.24	13.24	13.24	6.46	6.90	72.25	Hemamali	06/11/2017		Unknown	S3					
1	13.10	13.10	13.10	6.63	6.28	71.61	D206	04/06/2014	NorthSails	Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				

MEASUREMENT INVENTORY				
Measurer A. Tetsmann EST 1				
Date 03/07/2007				
Comment				
Id	Item	Weight	Distance	VCG Description
4	Anchor	40.0	4.40	Anchor, starb.
2	Anchor	5.0	4.40	Anchor, ports.
4	Tools	44.0	5.70	Toolbox, center
Id	Item	Maker	Model	
1	Engine	Yanmar	3YM20	
Id	Item	Weight	Description	

MEASUREMENT INVENTORY								
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condn	Description
1	Tank	Water	Plastic	100.0	4.00		0-0	Water tank
2	Tank	Fuel	Plastic	60.0	7.55		0-0	Diesel tank
Id	Item	Weight	Distance	VCG Description				
1	Battery		3.75	Battery 70Ah ports.				
2	Battery		2.95	Battery 70Ah ports.				



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ORC Club Certificate Appendix

BOAT	
Name	Matilda 3
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Sail Nr	EST 462
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TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1098.2	909.4	797.4	737.0	716.4	709.0	703.0
52°	723.4	606.5	544.3	519.3	508.3	504.3	502.0
60°	686.4	578.1	529.0	507.5	495.5	490.0	487.2
75°	658.6	558.9	518.4	497.4	481.8	469.4	458.0
90°	662.5	549.5	507.1	487.1	477.4	461.2	434.3
110°	655.1	543.2	501.4	475.4	451.4	433.5	413.5
120°	674.3	555.6	507.6	480.7	454.6	430.4	393.5
135°	743.5	604.7	530.5	498.2	473.6	448.6	401.6
150°	877.3	697.2	589.9	527.8	498.3	475.3	429.9
Run VMG	1013.0	805.1	680.2	598.7	542.6	507.9	462.7
Selected Courses							
Windward / Leeward	1055.6	857.2	738.8	667.9	629.5	608.4	582.9
Circular Random	890.4	717.3	624.3	570.4	537.4	516.0	488.7
Coastal / Long Distance	1051.4	804.8	666.8	587.0	547.6	517.2	466.6
Non Spinnaker	951.1	760.3	656.4	595.3	557.8	533.7	504.5

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	42.5°	41.2°	41.1°	39.1°	38.8°	38.7°	38.7°
Beat VMG	3.28	3.96	4.51	4.88	5.02	5.08	5.12
52°	4.98	5.94	6.61	6.93	7.08	7.14	7.17
60°	5.24	6.23	6.81	7.09	7.26	7.35	7.39
75°	5.47	6.44	6.94	7.24	7.47	7.67	7.86
90°	5.43	6.55	7.10	7.39	7.54	7.81	8.29
110°	5.50	6.63	7.18	7.57	7.97	8.30	8.71
120°	5.34	6.48	7.09	7.49	7.92	8.36	9.15
135°	4.84	5.95	6.79	7.23	7.60	8.03	8.96
150°	4.10	5.16	6.10	6.82	7.22	7.57	8.37
Run VMG	3.55	4.47	5.29	6.01	6.64	7.09	7.78
Gybe Angles	145.7°	150.1°	151.3°	158.2°	180.0°	180.0°	180.0°