

BOAT Name Matilda 3 Sail Nr EST 462	GPH 648,8	HULL Length Overall 9,980m Maximum Beam 3,372m Displacement 4 634kg Draft 2,000m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,210% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension IMSL 9,120m VCGD -0,132m Sink 16,52kg/mm RL 7,897m VCGM -0,118m WS 22,22m² LSMO 8,970m Displacement/Length ratio 6,4206
GENERAL Class First 34.7 Designer Farr Builder Beneteau Series 10.2005 Age 06.2007 Age Allowance 0,390% Offset File F235.OFF - 27.07.2006 16:07:34 Measurement by A.Tetsmann - 06.06.2016		



Rating Office EYU Regati 1 11911, Tallinn Estonia
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	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
	Low	Medium	High	Low	Medium	High
Time On Distance	629,4			701,8		
Time On Time	0,9532			0,9619		
Triple Number	Low	Medium	High	Low	Medium	High
Time on Distance	750,0	573,3	505,4	971,9	707,9	605,1
Time on Time	0,9000	1,1774	1,3356	0,6945	0,9535	1,1156

Wind Velocity	TIME ALLOWANCES						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1120,9	928,8	821,3	751,4	722,3	709,0	698,9
52°	730,3	611,7	548,8	519,8	506,6	501,2	497,7
60°	686,9	578,0	529,4	506,4	492,6	485,4	480,5
75°	651,4	553,9	515,6	495,1	477,7	462,8	448,7
90°	653,8	549,9	505,6	485,8	475,5	458,0	426,9
110°	659,0	545,5	503,0	476,8	450,9	434,2	414,0
120°	680,0	559,3	509,6	483,0	457,5	432,1	395,8
135°	752,0	611,1	533,9	500,5	476,4	451,9	405,0
150°	887,9	703,9	595,4	530,8	500,5	477,9	432,8
Run VMG	1025,3	812,9	686,5	602,7	544,9	509,5	464,9

Certificate Number EST462 ORC Ref EST00001505 Issued On 16.07.2017 VPP Ver. 2017 1.00 Valid until 31.12.2017

Crew Weight Declared 660kg Default* 590kg Non Manual Pwr No
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Special Scoring ToD ToT Double H.GPH 651,8 0,9205 Double H.OSN 634,2 0,9460 Non Spin GPH 681,3 0,8807 Non Spin OSN 659,1 0,9103

Selected Courses	TIME ALLOWANCES						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1073,1	870,8	753,9	677,1	633,6	609,3	581,9
Circular Random	899,2	724,0	629,2	573,6	538,9	516,0	486,8
Ocean for PCS	1101,6	849,3	706,3	618,4	561,1	520,9	464,5
Non Spinnaker	957,4	765,2	660,0	597,5	558,4	532,7	500,5

Sails Limitations Headsails 5 Spinnakers 3

Wind Velocity	Velocity Prediction in Knots for True Wind Speeds						
	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	43,3°	42,0°	42,0°	40,5°	39,7°	39,1°	38,9°
Beat VMG	3,21	3,88	4,38	4,79	4,98	5,08	5,15
52°	4,93	5,88	6,56	6,93	7,11	7,18	7,23
60°	5,24	6,23	6,80	7,11	7,31	7,42	7,49
75°	5,53	6,50	6,98	7,27	7,54	7,78	8,02
90°	5,51	6,55	7,12	7,41	7,57	7,86	8,43
110°	5,46	6,60	7,16	7,55	7,98	8,29	8,70
120°	5,29	6,44	7,06	7,45	7,87	8,33	9,10
135°	4,79	5,89	6,74	7,19	7,56	7,97	8,89
150°	4,05	5,11	6,05	6,78	7,19	7,53	8,32
Run VMG	3,51	4,43	5,24	5,97	6,61	7,07	7,74
Gybe Angles	145,8°	150,3°	151,6°	158,2°	180,0°	180,0°	180,0°

Class Division Length CDL = 8,509
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Storm Sails Areas Heavy Weather Jib 23,70 Storm Jib (JL=8,61) 8,78 Storm Trysail 10,01

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		99,2kg·m	
Limit of positive stability / Stab.Index		128,7° / 128,3	
Freeboard at mast at 3,660		1,165	



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IMS Measurement Certificate

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	

MOVEABLE BALLAST	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)						
Mainsail	MHB	MUW	MTW	MHW	MQW	
	0,170	0,94	1,67	2,85	3,72	
						Area Area (r) Formula
						33,82 34,48 P/8 · (E + 2·MQW+ 2·MHW + 1.5·MTW + MUW + 0.5·MHB)
Symmetric	SLU	SLE	SL	SHW	SFL	
	13,40	13,40	13,40	6,95	6,60	
						76,83 SL · (SFL + 4·SHW) / 6
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
0,10	0,58	1,09	2,05	2,94	3,75	13,00	25,83			10.10.2016	Unknow	Medium 2016
0,11	0,58	1,09	2,06	2,94	3,75	12,93	25,73			13.06.2017	Unknow	Blast reacher
0,10	0,58	1,08	2,02	2,90	3,72	12,95	25,44			13.06.2017	Unknow	Light 2013
0,10	0,48	0,89	1,74	2,62	3,55	12,54	22,17			14.12.2007	Unknow	

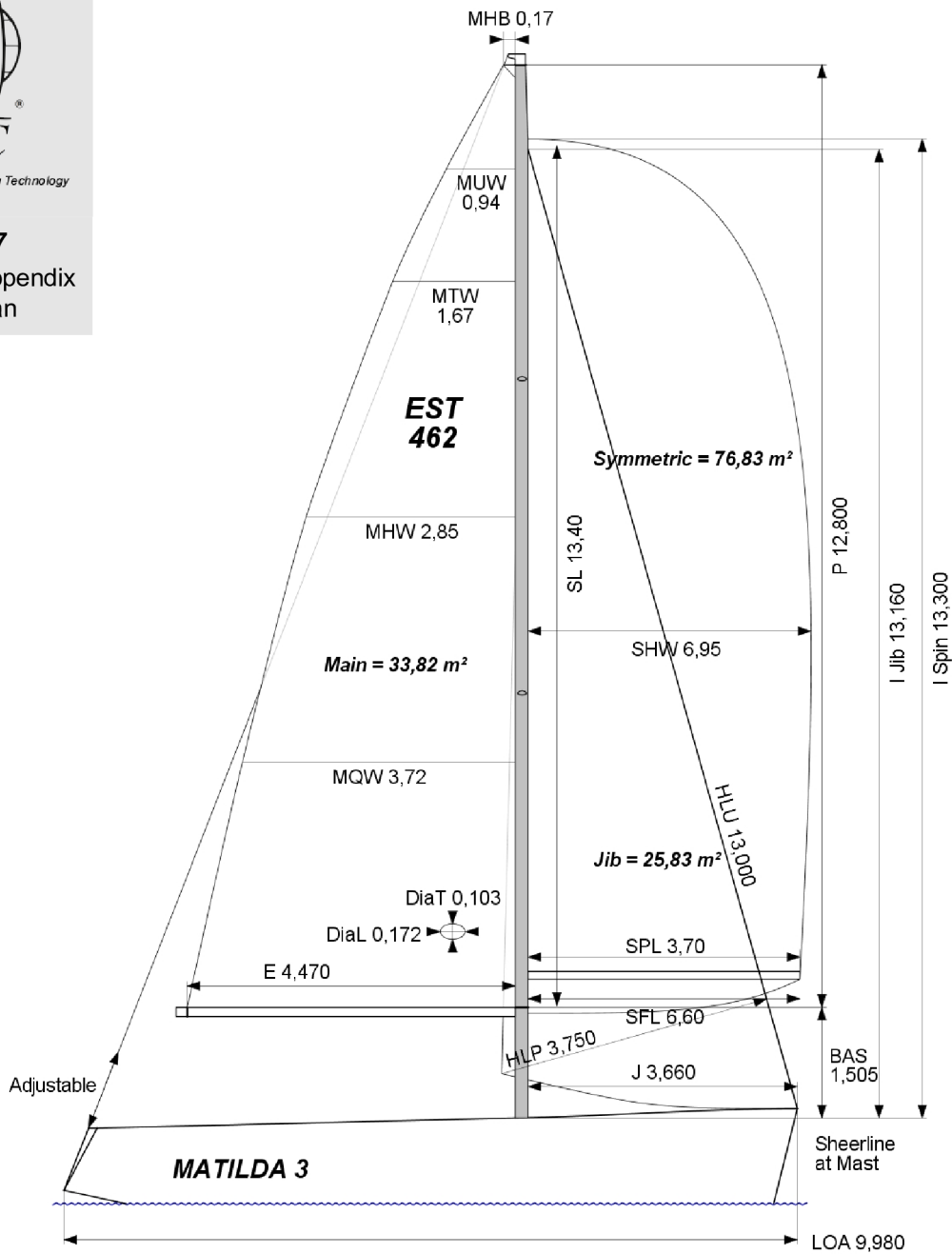
MEASUREMENT INVENTORY				
Measurer A Tetsmann EST 1				
Date 03.07.2007				
Comment				
Id	Item	Weight	Distance	VCG Description
4	Anchor	40,0	4,10	Anchor, starb.
2	Anchor	5,0	4,40	Anchor, ports.
4	Tools	41,0	5,70	Toolbox, center
Id	Item	Maker	Model	
1	Engine	Yanmar	3YM20	
Id	Item	Weight Description		

MEASUREMENT INVENTORY									
Id	Item	Tank Use	Tank Type	Capcty	Dist.	VCG	Condtn	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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Certificate Appendix
Sail Plan



SAILS INVENTORY

MANSAL (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 (4)																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
8a	0,10	0,58	1,09	2,05	2,94	3,75	13,00	102%	25,83			EST 1	10.10.2016	NorthSails	Unknow	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		Unknow	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		Unknow	Light 2013
3	0,10	0,48	0,89	1,74	2,62	3,55	12,54	97%	22,17			D206	14.12.2007		Unknow	
SYMMETRIC SPINNAKERS (4)																
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						
1	13,10	13,10	13,10	6,63	6,28	71,61	D206	04.06.2014	NorthSails	Unknown						
2	13,15	13,15	13,15	6,48	6,44	70,92	EST 1			Unknown						
3	13,40	13,40	13,40	5,28	6,95	62,69	D206			Unknown						
ASYMMETRIC SPINNAKERS (0)																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				