

BOAT	GPH	HULL
Name Matilda 3 Sail Nr EST 462	648,0	Length Overall 9,980m Maximum Beam 3,372m Displacement 4 634kg Draft 2,000m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,217% Fwd Accommodation No Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 9,120m VCGD -0,132m Sink 16,52kg/mm
Class First 34.7 Designer Farr Builder Beneteau Series 10.2005 Age 06.2007 Age Allowance 0,357% Offset File F235.OFF - 27.07.2006 16:07:34 Measurement by A.Tetsmann - 06.06.2016		RL 8,048m VCGM -0,118m WS 22,22m²
		LSM0 8,970m Displacement/Length ratio 6,4206



2016
ORC International
Certificate

Rating Office
EYU Regati 1 11911 Estonia

	OFFSHORE COASTAL / LONG DISTANCE			INSHORE WINDWARD / LEEWARD		
	PLT	PLD		PLT	PLD	
Time On Distance	628,6			700,2		
Time On Time	0,9545			0,9639		
Performance Line	0,636	30,4		0,774	174,5	
Triple Number	Low 0,8991	Medium 1,1795	High 1,3408	Low 0,6930	Medium 0,9554	High 1,1219

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1118,8	925,3	814,7	744,3	715,1	701,5	688,7
52°	726,8	608,0	544,4	515,9	503,4	498,0	494,1
60°	682,3	573,7	525,4	502,6	489,2	482,5	477,5
75°	645,6	549,3	511,7	491,2	473,8	459,5	446,5
90°	649,1	551,7	506,5	484,5	473,7	455,9	426,1
110°	663,1	548,1	504,4	478,3	452,4	432,9	412,8
120°	684,8	562,6	511,2	484,7	460,0	435,1	395,1
135°	758,6	617,3	537,8	502,9	479,0	454,9	408,5
150°	895,2	708,5	599,8	534,0	502,5	480,0	435,4
Run VMG	1033,7	818,1	691,1	606,5	547,1	510,9	466,5

Certificate
Number EST462 ORC Ref EST00001090 Issued On 7.06.2016 VPP Ver. 2016 1.01 Valid until 31.12.2016

Crew Weight
Declared 660kg Default* 590kg Non Manual Pwr No

Special Scoring
ToD ToT Double H.GPH 651,1 0,9215 Double H.OSN 633,5 0,9472 Non Spin GPH 677,6 0,8855 Non Spin OSN 655,6 0,9152 N/S Perf. Line 9,3 0,578

Selected Courses							
Windward / Leeward	1076,2	871,7	752,9	675,4	631,1	606,2	577,6
Circular Random	899,4	723,6	628,4	572,3	537,3	514,1	484,5
Ocean for PCS	1103,3	849,5	705,6	617,2	559,7	519,3	462,8
Non Spinnaker	952,3	761,0	656,3	594,1	555,3	529,9	498,4

Sails Limitations
Headsails 6 Spinnakers 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	43,5°	42,1°	42,1°	40,3°	39,4°	39,0°	38,3°
Beat VMG	3,22	3,89	4,42	4,84	5,03	5,13	5,23
52°	4,95	5,92	6,61	6,98	7,15	7,23	7,29
60°	5,28	6,28	6,85	7,16	7,36	7,46	7,54
75°	5,58	6,55	7,03	7,33	7,60	7,83	8,06
90°	5,55	6,53	7,11	7,43	7,60	7,90	8,45
110°	5,43	6,57	7,14	7,53	7,96	8,32	8,72
120°	5,26	6,40	7,04	7,43	7,83	8,27	9,11
135°	4,75	5,83	6,69	7,16	7,52	7,91	8,81
150°	4,02	5,08	6,00	6,74	7,16	7,50	8,27
Run VMG	3,48	4,40	5,21	5,94	6,58	7,05	7,72
Gybe Angles	145,9°	150,5°	152,3°	158,3°	180,0°	180,0°	180,0°

Class Division Length
CDL = 8,585

Storm Sails Areas
Heavy Weather Jib 23,70 Storm Jib (JL=8,61) 8,78 Storm Try sail 10,01

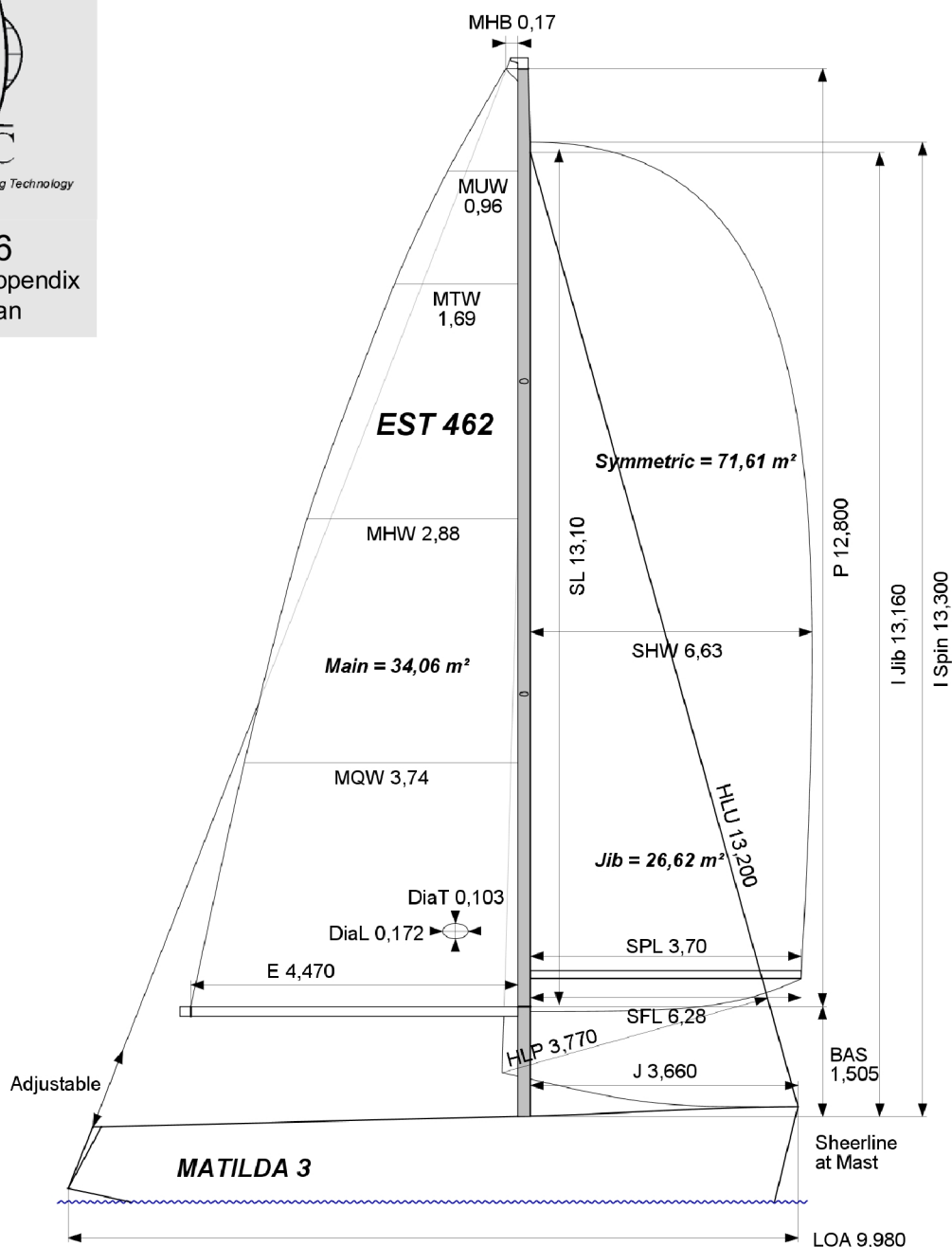
BOAT Name Matilda 3 Sail Nr EST 462 File Est0462.dxt Data in meters/kilograms				INCLINING TEST AND FREEBOARDS Inclining Test Current Inclining Flotation date 03.07.2007 SG 1,0020																																																																																																												
RIG Forestay 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				FFM 1,295 FF 1,306 SFFP 0,172 FAM 1,029 FA 1,035 SAFF 9,530 W1 62,400 PD1 203,0 WD 9,780 W2 62,400 PD2 204,0 GSA 12,6 W3 62,400 PD3 203,0 RSA 4298,7 W4 62,400 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																																																																																																												
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																																																																																																												
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World Leader in Rating Technology

2016 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL

Id	MHB	MUW	MTW	MHW	MQW	Area	Measur	Meas.Date	Manufacture	Material	Comment
4	0,170	0,96	1,69	2,88	3,74	34,06	Loft22	07.12.2015	NorthSails	Unknown	

HEADSAILS

Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measur	Meas.Date	Manufacture	Material	Comment
8	0,10	0,61	1,12	2,09	2,98	3,77	13,20	103%	26,62			Loft22	08.12.2015	NorthSails	Unknown	
5a	0,10	0,60	1,11	2,07	2,95	3,78	13,05	103%	26,16			EST 2	02.09.2013		Unknown	
7	0,11	0,59	1,10	2,07	2,97	3,76	12,93	103%	25,90			EST 1	06.06.2016		Unknown	
6	0,10	0,58	1,09	2,02	2,87	3,73	12,97	102%	25,44			EST 2	02.09.2013		Unknown	
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

Id	SLU	SLE	SL	SHW	SFL	Area	Measur	Meas.Date	Manufacture	Material	Comment
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

Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measur	Meas.Date	Manufacture	Material	Comment
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