

BOAT	GPH	HULL
Name MINNI Sail Nr EST 50	616,5	Length Overall 10,600m Maximum Beam 3,250m Displacement 4 589kg Draft 2,178m IMS Reg. Division Cruiser/Racer Dynamic Allowance 0,027% Fwd Accommodation Yes Hull Construction Cored Carbon Rudder No Crew Arm Extension
GENERAL		IMSL 9,486m VCGD 0,071m Sink 17,76kg/mm RL 8,820m VCGM 0,055m WS 23,18m² LSM0 9,302m Displacement/Length ratio 5,7015
Class X-35 Designer JEPPESEN Builder X YACHTS Series 09.2005 Age 01.2006 Age Allowance 0,357% Offset File X35.OFF - 17.12.2005 11:51:04 Measurement by Tetsmann - 26.06.2016		



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	599,5			669,0		
Time On Time	1,0009			1,0090		
Performance Line	0,687	42,9		0,873	217,9	
Triple Number	Low 0,9537	Medium 1,2362	High 1,3930	Low 0,7358	Medium 1,0049	High 1,1628

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1049,3	870,0	761,3	711,0	690,6	680,5	666,6
52°	682,5	572,6	517,4	497,5	490,4	486,8	479,5
60°	640,8	543,4	502,5	484,0	476,1	471,9	464,9
75°	606,7	523,5	491,7	470,6	454,4	446,1	439,6
90°	608,8	524,9	489,1	471,4	451,0	431,7	411,8
110°	627,5	522,6	483,9	455,4	436,3	423,2	401,8
120°	645,9	533,8	490,3	461,9	432,7	407,9	382,2
135°	713,9	579,2	512,2	481,3	454,6	427,5	373,0
150°	844,5	671,2	567,8	510,7	482,0	457,3	408,0
Run VMG	975,1	775,0	654,9	579,0	526,4	492,8	444,8

Certificate
Number EST050 ORC Ref EST00001191 Issued On 1.07.2016 VPP Ver. 2016 1.01 Valid until 31.12.2016

Crew Weight
Declared 740kg Default* 621kg Non Manual Pwr No

Special Scoring
ToD ToT Double H.GPH 622,2 0,9643 Double H.OSN 607,0 0,9885 Non Spin GPH 647,0 0,9274 Non Spin OSN 628,6 0,9545 N/S Perf. Line 16,0 0,613

Selected Courses							
Windward / Leeward	1012,2	822,5	708,1	645,0	608,5	586,7	555,7
Circular Random	849,3	685,9	598,2	547,1	515,4	494,2	465,8
Ocean for PCS	1041,2	804,4	670,9	589,3	536,2	498,9	446,7
Non Spinnaker	903,6	724,4	627,0	569,7	534,0	510,3	479,5

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	43,6°	42,4°	41,7°	39,8°	38,6°	38,2°	37,7°
Beat VMG	3,43	4,14	4,73	5,06	5,21	5,29	5,40
52°	5,28	6,29	6,96	7,24	7,34	7,40	7,51
60°	5,62	6,62	7,16	7,44	7,56	7,63	7,74
75°	5,93	6,88	7,32	7,65	7,92	8,07	8,19
90°	5,91	6,86	7,36	7,64	7,98	8,34	8,74
110°	5,74	6,89	7,44	7,90	8,25	8,51	8,96
120°	5,57	6,74	7,34	7,79	8,32	8,83	9,42
135°	5,04	6,22	7,03	7,48	7,92	8,42	9,65
150°	4,26	5,36	6,34	7,05	7,47	7,87	8,82
Run VMG	3,69	4,64	5,50	6,22	6,84	7,31	8,09
Gybe Angles	144,9°	149,1°	151,1°	158,1°	180,0°	180,0°	180,0°

Class Division Length
CDL = 9,153

Storm Sails Areas
Heavy Weather Jib 28,66 Storm Jib (JL=9,47) 10,61 Storm Try sail 10,67

CENTERBOARD	
	N/A

Table 1. Demographic characteristics of the study population	
Age (years)	18-24
Gender	Male
Marital status	Married
Education	High school
Occupation	Unemployed
Religion	Islam
Family size	2-3
Income (USD)	100-200
Health status	Healthy
Smoking status	Non-smoker
Alcohol consumption	Non-drinker
Physical activity	Sedentary
Dietary habits	Vegetarian
Stress level	Low
Sleep pattern	Regular
Family history of disease	No
Previous medical conditions	No
Current medications	No
Genetic predisposition	No
Environmental factors	Urban
Socioeconomic status	Lower
Cultural background	Arab
Language spoken at home	Arabic
Religious practices	Regular
Community involvement	Active
Health insurance status	Yes
Access to healthcare	Good
Health literacy level	High
Health beliefs	Positive
Health behaviors	Healthy
Health outcomes	Good
Health status over time	Stable
Health status by region	Urban
Health status by education	High school
Health status by occupation	Unemployed
Health status by religion	Islam
Health status by family size	2-3
Health status by income	100-200
Health status by smoking status	Non-smoker
Health status by alcohol consumption	Non-drinker
Health status by physical activity	Sedentary
Health status by dietary habits	Vegetarian
Health status by stress level	Low
Health status by sleep pattern	Regular
Health status by family history of disease	No
Health status by previous medical conditions	No
Health status by current medications	No
Health status by genetic predisposition	No
Health status by environmental factors	Urban
Health status by socioeconomic status	Lower
Health status by cultural background	Arab
Health status by language spoken at home	Arabic
Health status by religious practices	Regular
Health status by community involvement	Active
Health status by health insurance status	Yes
Health status by access to healthcare	Good
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Health status by health beliefs	Positive
Health status by health behaviors	Healthy
Health status by health outcomes	Good
Health status by health status over time	Stable
Health status by health status by region	Urban
Health status by health status by education	High school
Health status by health status by occupation	Unemployed
Health status by health status by religion	Islam
Health status by health status by family size	2-3
Health status by health status by income	100-200
Health status	

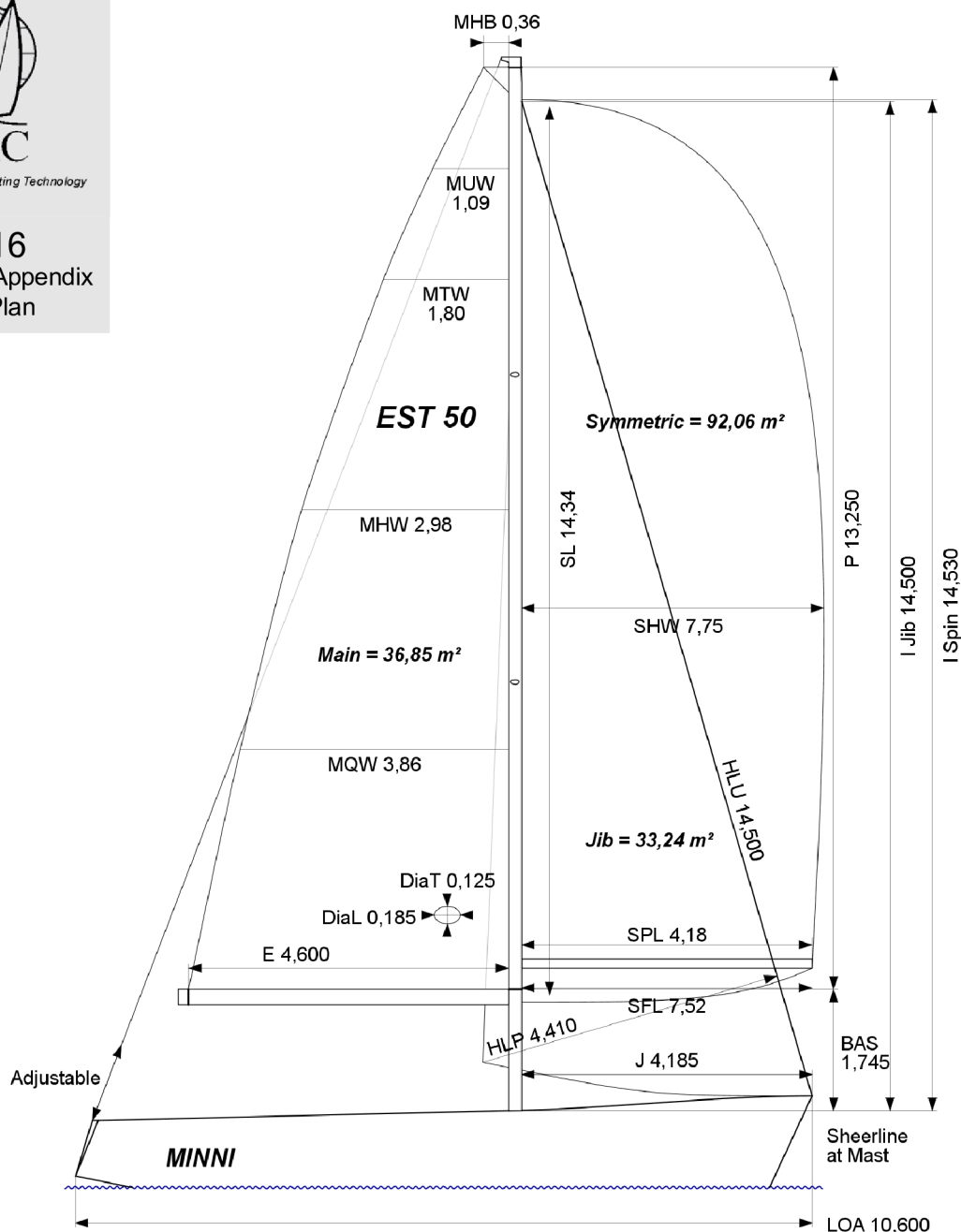
HEADSAILS												
Area = 0.1125·HLU · (1.445·HLP + 2·HQW + 2·HHW + 1.5·HTW + HUW + 0.5·HHB)												
HHB	HUW	HTW	HHW	HQW	HLP	HLU	Area	Btn	Fly	Meas.Date	Material	Comment
0,14	0,68	1,25	2,33	3,36	4,41	14,50	33,24			06.06.2016	Unknow	Medium 2016
0,13	0,67	1,23	2,31	3,33	4,43	14,50	33,05				Unknow	Light 2016
0,09	0,61	1,18	2,25	3,30	4,33	14,33	31,89			01.07.2015	Carbon	Light
0,09	0,61	1,18	2,26	3,30	4,39	14,14	31,64			01.07.2015	Kevlar	Light
0,11	0,62	1,17	2,17	3,20	4,30	14,32	31,23			01.07.2015	Carbon	Medium
0,10	0,60	1,17	2,19	3,23	4,39	14,15	31,18			01.07.2015	Kevlar	Medium

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2016 Certificate Appendix Sail Plan



SAILS INVENTORY

MAINSAIL																
Id	MHB	MUW	MTW	MHW	MQW	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
3	0,360	1,09	1,80	2,98	3,86	36,85	EST 1	06.06.2016	OneSails	Unknown						
HEADSAILS																
Id	HHB	HUW	HTW	HHW	HQW	HLP	HLU	Ovrlp	Area	Btn	Fly	Measurer	Meas.Date	Manufacture	Material	Comment
6	0,14	0,68	1,25	2,33	3,36	4,41	14,50	105%	33,24			EST 1	06.06.2016	OneSails	Unknown	Medium 2016
7	0,13	0,67	1,23	2,31	3,33	4,43	14,50	106%	33,05					OneSails	Unknow	Light 2016
1	0,09	0,61	1,18	2,25	3,30	4,33	14,33	103%	31,89			EST 1	01.07.2015		Carbon	Light
3	0,09	0,61	1,18	2,26	3,30	4,39	14,14	105%	31,64			EST 1	01.07.2015		Kevlar	Light
2	0,11	0,62	1,17	2,17	3,20	4,30	14,32	103%	31,23			EST 1	01.07.2015		Carbon	Medium
4	0,10	0,60	1,17	2,19	3,23	4,39	14,15	105%	31,18			EST 1	01.07.2015		Kevlar	Medium
SYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
5	14,34	14,34	14,34	7,75	7,52	92,06	110 K17	11.07.2008		Unknown	S2 0,5oz					
3	14,20	14,20	14,20	7,70	7,40	90,41	EST 1	01.07.2015		Unknown	S4 0,75oz					
1	14,26	14,26	14,26	7,65	7,34	90,17	110 K17	04.01.2007			2S 0,5oz					
2	14,22	14,22	14,22	7,60	7,36	89,49	EST 1	01.07.2015		Unknown	S1,5 0,5oz					
4	14,30	14,30	14,30	7,08	7,23	84,73	EST 1	01.07.2015		Unknown	S4 1,5oz					
ASYMMETRIC SPINNAKERS																
Id	SLU	SLE	SL	SHW	SFL	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment				