

BOAT
Name ZARAH MAY Sail Nr EST-271

GPH
643,0

HULL	
Length Overall	10,546 m
Maximum Beam	3,553 m
Displacement	6 687 kg
Draft	2,033 m
IMS Reg. Division	Cruiser/Racer
Dynamic Allowance	0,715%
Fwd Accommodation	Yes
Hull Construction	Cored
Carbon Rudder	Yes
Trim Tab	No
IMS L	9,758 VCGD 0,113 VCGM 0,024
Sink	19,45 kg/mm Wetted Area 26,51 m²



2009
ORC International
Certificate

GENERAL
Class RIDAS 35
Designer LÖNNGREN
Builder RIDAS JAHT
Series 06.1997
Age 05.2000
Age Allowance 0,780%
Offset File EST220.BOF - 11.06.1999 3:00:00
Measurement by TETSMANN - 05.07.2006

SCORING OPTIONS						
	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	643,0			712,4		
Time On Time	0,9331			0,9475		
Performance Line	PLT	PLD		PLT	PLD	
	0,837	117,3		0,986	297,1	
Triple Number	Low	Medium	High	Low	Medium	High
	0,9129	1,1876	1,3323	0,6924	0,9657	1,1258

Rating Office
Estonian Yachting Union Veiko Rosme Regati 1, 11911, Tallinn Estonia

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	1090,1	878,0	776,3	730,6	703,2	685,8	668,0
52°	696,3	578,6	538,4	512,8	499,9	492,5	485,1
60°	645,7	557,3	522,1	496,9	485,2	479,4	472,5
75°	606,2	542,0	504,6	484,1	473,0	461,8	450,6
90°	600,6	531,2	494,3	474,9	462,2	455,4	437,1
110°	621,7	543,0	505,1	481,5	463,9	443,7	418,7
120°	670,8	559,7	518,4	489,3	471,5	452,7	414,9
135°	784,0	615,7	547,8	511,7	486,7	470,3	433,8
150°	941,8	730,9	605,4	547,6	513,4	488,6	455,7
Run VMG	1087,5	844,0	699,0	611,4	558,1	523,7	479,3

Certificate
Number EST271 ORC Ref EST00000144 Issued On 11.05.2009 VPP Ver. 1.11 Valid until 31.12.2009

Crew Weight
Declared 590 kg Default* 662 kg

Special Scoring
ToD ToT Double 644,2 0,9314 Non Spinnaker 682,5 0,8791

Selected Courses							
Windward / Leeward	1106,9	875,0	750,0	680,1	638,3	611,4	579,0
Circular Random	888,7	715,8	623,5	570,2	537,7	516,3	488,9
Ocean for PCS	951,0	749,2	637,8	571,0	528,2	498,4	456,7
Non Spinnaker	964,0	767,5	660,4	597,6	558,8	533,7	503,0

Sails Limitations		
Genoa 3	Jibs 2	Spinnakers 3
Spinnaker configuration Symmetric		

Storm Sails Areas	
Heavy Weather Jib	26,32
Storm Jib (JL=9,08)	9,75
Storm Trysail	10,27

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	44,9°	44,3°	40,3°	38,0°	36,5°	35,5°	34,8°
Beat VMG	3,30	4,10	4,64	4,93	5,12	5,25	5,39
52°	5,17	6,22	6,69	7,02	7,20	7,31	7,42
60°	5,58	6,46	6,90	7,24	7,42	7,51	7,62
75°	5,94	6,64	7,13	7,44	7,61	7,80	7,99
90°	5,99	6,78	7,28	7,58	7,79	7,91	8,24
110°	5,79	6,63	7,13	7,48	7,76	8,11	8,60
120°	5,37	6,43	6,94	7,36	7,64	7,95	8,68
135°	4,59	5,85	6,57	7,03	7,40	7,65	8,30
150°	3,82	4,93	5,95	6,57	7,01	7,37	7,90
Run VMG	3,31	4,27	5,15	5,89	6,45	6,87	7,51
Gybe Angles	142,6°	146,1°	150,6°	163,9°	173,4°	174,9°	177,6°

Owner
AARE KÖÖP LILIA 4 TALLINN 11914 ESS KALEV JK
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name ZARAH MAY	Sail Nr EST-271
File est0271.dxt	Data in meters/kilograms

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Forestay None Fitted	Runners 1		
Carbon Mast No	Jumpers None		
Taper Hollows No	w/o Backstay No		
P 13,900	E 4,220	MDT1 0,113	TL 1,040
IG 13,900	J 4,380	MDL1 0,185	MWT 155,70
ISP 13,900	SFJ 0,000	MDT2 0,098	MCG 5,690
SPS 3,020	SPL 4,300	MDL2 0,176	CPW 2,140
BAS 1,440	TPS	MW 0,185	BD 0,200
BAL 0,152	FSP 0,070	GO 0,205	BWT

HEAVY ITEMS			
Bow Thruster No	Generator No	Air Condition No	
Windlass No	Jib Furler No	Desalinator No	
Heavy Deck No	Main Furler No		
Headliners No	Water Heater No		
Anchor Weight	Heavy Items Adjustment	0,0000	
Anchor LCG	Total Gyradius Adjustment	0,0364	

MIZZEN RIG AND SAILS	
N/A	

COMMENTS

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 07.06.2000	SG 1,0020	
FFM 1,081	FF 1,091	SFFP 0,550
FAM 0,938	FA 0,945	SAFP 9,246
W1 17,600	PD1 60,5	WD 12,232
W2 35,200	PD2 118,8	GSA 12,6
W3 52,800	PD3 177,1	RSA 4298,7
W4 70,400	PD4 236,5	PLM 2005,
Maximum beam station from stem	6,698	
RM Measured / Default	127,5 / 124,9	
Limit of positive stability	113,4°	
Stability Index	116,9	
Freeboard at mast at 4,380	1,017	

PROPELLER		
Installation Strut Drive	PRD 0,410	
Type Folding	PBW 0,110	
Twin Screw No	PIPA 0,0028	
ST1 0,050	ST3 0,170	ST5 0,290
ST2 0,170	ST4 0,090	EDL 1,740

WATER BALLAST	
N/A	

CENTERBOARD
N/A



2009
IMS Measurement
Certificate

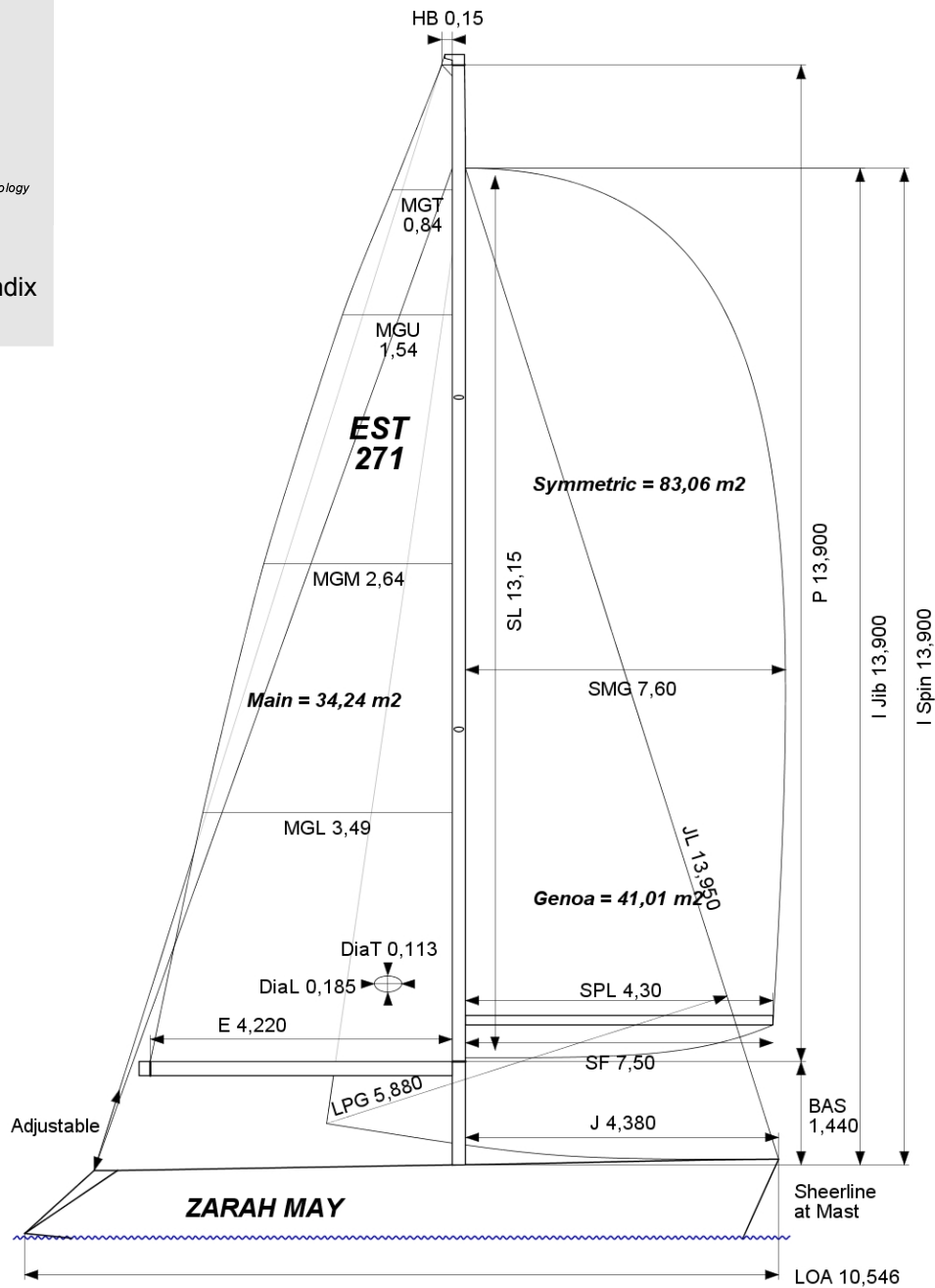
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VPP Ver. 1.11	
Valid until 31.12.2009	

SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Formula	
	0,150	0,84	1,54	2,64	3,49	17,70	34,24	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0,00	0,74	1,47	2,94	4,41	13,95	5,88	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF				Area	Formula	
	13,15	7,60	7,50				83,06	SL · (SF + 4·SMG) / 6	



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2009
Certificate Appendix
Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Dat	Manufacturer	Material	Comment
ORC	0,150	0,84	1,54	2,64	3,49	17,70	34,24					* Copied from legacy *

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Dat	Manufacturer	Material	Comment
ORC						5,88	13,95	134%	41,02					* Copied from legacy *

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Dat	Manufacturer	Material	Comment
ORC	13,15	7,60	7,50	83,06					* Copied from legacy *

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Dat	Manufacturer	Material	Comment
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