

BOAT
Name VIVIDOR
Sail Nr EST 345

GPH
647,3

HULL
Length Overall 10,546 m
Maximum Beam 3,553 m
Displacement 6 629 kg
Draft 2,029 m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 0,727%
Fwd Accommodation Yes
Hull Construction Solid
Carbon Rudder No
Trim Tab No
IMS L 9,737 VCGD 0,062 VCGM -0,025
Sink 19,33 kg/mm Wetted Area 26,40 m²



2009
ORC International
Certificate

GENERAL
Class Ridas 35
Designer Lönngren/Ridas
Builder Ridas Jaht
Series 06.1997
Age 04.2003
Age Allowance 0,780%
Offset File EST220.BOF - 11.06.1999 3:00:00
Measurement by A.Tetsmann - 10.06.2008

SCORING OPTIONS		
	OFFSHORE	INSHORE
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time On Distance	647,3	718,4
Time On Time	0,9269	0,9396
Performance Line	PLT 0,825 PLD 112,0	PLT 0,952 PLD 281,2
Triple Number	Low 0,9044 Medium 1,1803 High 1,3278	Low 0,6866 Medium 0,9560 High 1,1176

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	1109,7	902,2	789,8	741,5	713,1	694,9	676,4
52°	712,9	588,5	544,0	517,5	503,2	495,0	486,9
60°	664,0	564,4	526,6	500,0	487,0	480,8	473,6
75°	622,8	547,4	505,8	485,9	474,0	462,9	451,5
90°	605,8	532,3	493,9	474,5	463,3	456,6	438,3
110°	626,6	544,0	504,1	479,7	461,3	441,8	419,8
120°	673,3	561,2	517,7	487,6	468,9	449,0	413,2
135°	778,9	617,9	548,3	510,7	485,0	467,7	430,1
150°	933,1	730,2	607,4	548,2	512,7	487,2	452,6
Run VMG	1077,4	843,2	701,2	613,4	559,3	523,7	477,9

Certificate
Number EST345
ORC Ref EST00000070
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VPP Ver. 1.11
Valid until 31.12.2009

Crew Weight
Declared 500 kg
Default* 670 kg

Special Scoring
ToD ToT
Double 648,4 0,9254
Non Spinnaker 690,0 0,8696

Selected Courses							
Windward / Leeward	1112,8	885,2	758,3	686,6	643,9	616,1	582,6
Circular Random	895,4	721,1	627,6	573,4	540,2	518,3	490,4
Ocean for PCS	957,4	754,5	642,0	574,1	530,3	499,8	457,1
Non Spinnaker	975,7	776,6	667,7	603,4	563,4	537,3	505,3

Sails Limitations
Genoas 3 Jibs 2 Spinnakers 3
Spinnaker configuration Symmetric

Storm Sails Areas
Heavy Weather Jib 25,52
Storm Jib (JL=8,94) 9,45
Storm Trysail 10,22

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	44,4°	44,6°	40,8°	38,5°	37,0°	36,1°	35,4°
Beat VMG	3,24	3,99	4,56	4,86	5,05	5,18	5,32
52°	5,05	6,12	6,62	6,96	7,15	7,27	7,39
60°	5,42	6,38	6,84	7,20	7,39	7,49	7,60
75°	5,78	6,58	7,12	7,41	7,60	7,78	7,97
90°	5,94	6,76	7,29	7,59	7,77	7,88	8,21
110°	5,74	6,62	7,14	7,50	7,80	8,15	8,57
120°	5,35	6,41	6,95	7,38	7,68	8,02	8,71
135°	4,62	5,83	6,57	7,05	7,42	7,70	8,37
150°	3,86	4,93	5,93	6,57	7,02	7,39	7,95
Run VMG	3,34	4,27	5,13	5,87	6,44	6,87	7,53
Gybe Angles	142,8°	147,2°	150,4°	163,5°	172,9°	174,5°	177,4°

Owner
AS TUTI AUTO
Suur-Sojamäe 27c
Tallinn, Estonia
ESS Kalev JK
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name VIVIDOR	Sail Nr EST 345
File Est0345.dxt	Data in meters/kilograms

RIG			
Forestay Tension Aft	Spreaders 2		
Inner Forestay None Fitted	Runners 0		
Carbon Mast No	Jumpers None		
Taper Hollows No	w/o Backstay No		
P 13,910	E 4,200	MDT1 0,111	TL
IG 13,670	J 4,400	MDL1 0,186	MWT 140,00
ISP 13,710	SFJ 0,000	MDT2 0,111	MCG 5,180
SPS	SPL 4,400	MDL2 0,186	CPW
BAS 1,450	TPS	MW 0,185	BD
BAL	FSP 0,070	GO 0,210	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	0,0398	

MIZZEN RIG AND SAILS	
N/A	

COMMENTS

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 10.06.2008	SG 1,0020	
FFM 1,074	FF 1,084	SFFP 0,550
FAM 0,948	FA 0,955	SAFP 9,246
W1 65,600	PD1 209,0	WD 12,000
W2 65,600	PD2 207,0	GSA 12,6
W3 65,600	PD3 209,0	RSA 4298,7
W4 65,600	PD4 207,0	PLM 2005,
Maximum beam station from stem	6,698	
RM Measured / Default	132,4 / 123,3	
Limit of positive stability	116,4°	
Stability Index	119,7	
Freeboard at mast at 4,400	1,017	

PROPELLER		
Installation Strut Drive	PRD 0,400	
Type Folding	PBW	
Twin Screw No	PIPA 0,0030	
ST1 0,058	ST3	ST5 0,213
ST2	ST4 0,098	EDL 1,900

WATER BALLAST	
N/A	

CENTERBOARD
N/A



2009
IMS Measurement
Certificate

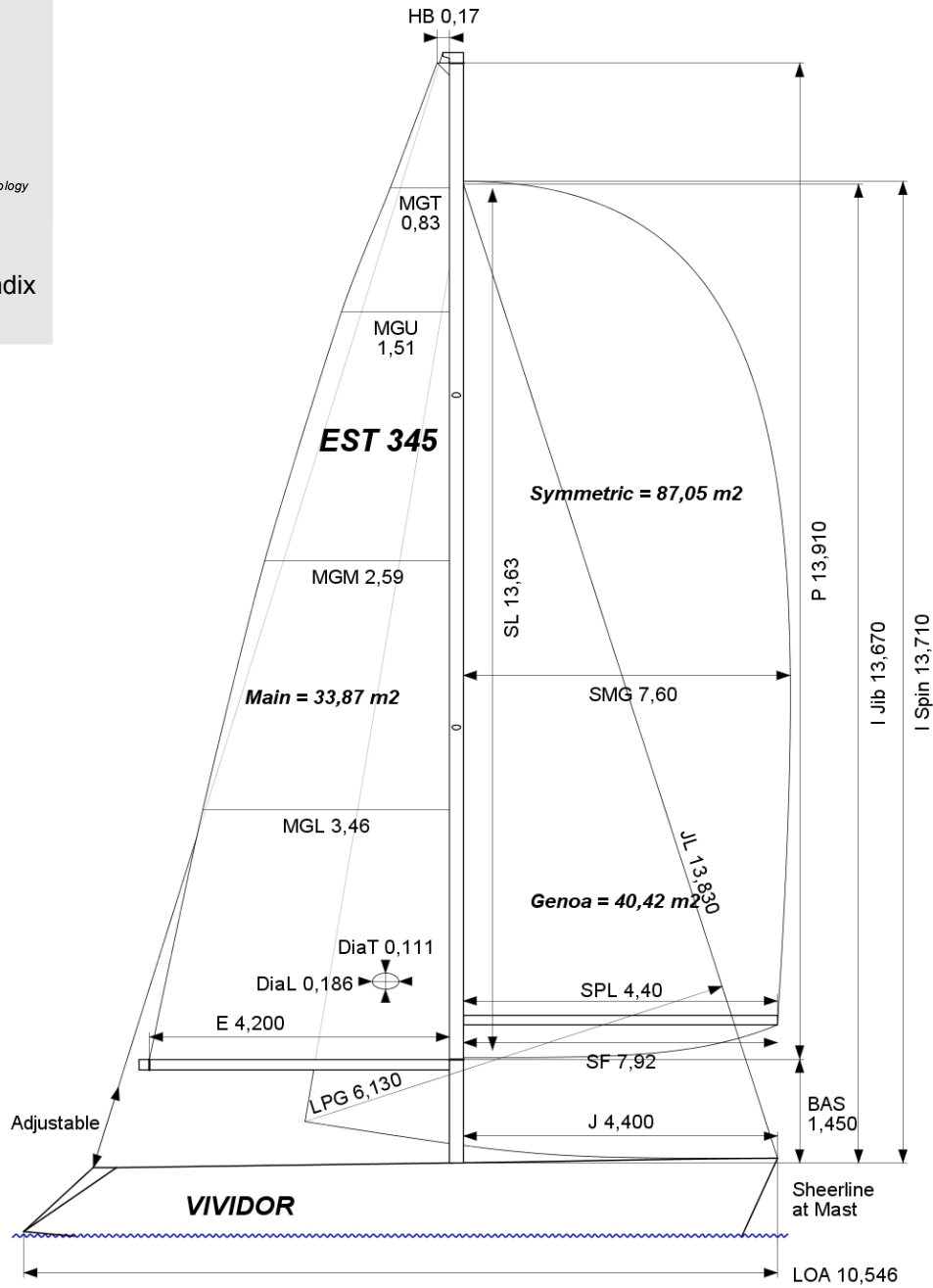
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SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Formula	
	0,170	0,83	1,51	2,59	3,46	28,00	33,87	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG	Formula	
	0,08	0,71	1,41	2,82	4,31	13,83	6,13	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF	Formula					
	13,63	7,60	7,92	87,05 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	0,170	0,83	1,51	2,59	3,46	28,00	33,87					* Copied from legacy *

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measure	Meas.Dat	Manufacturer	Material	Comment
ORC	0,08	0,71	1,41	2,82	4,31	6,13	13,83	139%	40,43	AT	28.04.2009			

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Dat	Manufacturer	Material	Comment
ORC	13,63	7,60	0,00	87,05					* Copied from legacy *

ASYMMETRIC SPINNAKERS

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