

BOAT
Name SILVA
Sail Nr EST 407

GPH
621,9

HULL
Length Overall 10,640 m
Maximum Beam 3,450 m
Displacement 5 753 kg
Draft 2,230 m
IMS Reg. Division Cruiser/Racer
Dynamic Allowance 0,316%
Fwd Accommodation Yes
Hull Construction Solid
Carbon Rudder No
Trim Tab No
IMS L 9,798 VCGD 0,115 VCGM 0,096
Sink 19,57 kg/mm Wetted Area 25,43 m²



2009
ORC International
Certificate

GENERAL
Class First 36.7
Designer B.Farr
Builder Beneteau S.A.
Series 01.2001
Age 05.2006
Age Allowance 0,520%
Offset File F196.BOF - 5.09.2002 9:35:34
Measurement by A.Tetsmann - 30.05.2006

SCORING OPTIONS		
	OFFSHORE	INSHORE
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time On Distance	621,9	690,4
Time On Time	0,9649	0,9777
Performance Line	PLT 0,862 PLD 113,5	PLT 1,031 PLD 308,3
Triple Number	Low 0,9454 Medium 1,2259 High 1,3792	Low 0,7198 Medium 0,9914 High 1,1526

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	1052,5	857,1	757,3	715,0	690,0	674,5	661,5
52°	680,1	568,2	521,6	497,6	486,8	480,4	474,7
60°	633,7	546,1	504,5	480,9	471,6	465,8	459,9
75°	597,2	529,6	486,2	470,4	453,2	443,6	434,7
90°	584,3	512,3	475,4	454,6	445,4	438,1	415,0
110°	598,8	524,8	485,7	461,1	436,9	416,4	398,1
120°	642,1	543,3	497,8	470,6	448,1	424,8	382,9
135°	744,8	593,6	530,0	491,9	468,0	447,3	406,1
150°	893,0	701,8	586,5	530,4	494,1	470,5	430,9
Run VMG	1031,1	810,3	676,2	595,3	542,6	505,2	460,4

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Crew Weight
Declared 690 kg
Default* 689 kg

Special Scoring
ToD ToT
Double 624,2 0,9613
Non Spinnaker 661,7 0,9067

Selected Courses							
Windward / Leeward	1060,6	846,4	729,2	663,6	623,5	596,5	566,8
Circular Random	857,2	691,9	603,3	551,9	520,1	499,0	471,8
Ocean for PCS	916,2	723,7	616,9	552,2	510,0	479,9	436,5
Non Spinnaker	931,7	743,4	640,7	580,1	542,4	517,8	487,8

Sails Limitations
Genoa 3 Jibs 2 Spinnakers 3
Spinnaker configuration Symmetric

Storm Sails Areas
Heavy Weather Jib 27,06
Storm Jib (JL=9,20) 10,02
Storm Trysail 11,51

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	44,0°	43,7°	39,9°	38,2°	37,2°	36,6°	36,2°
Beat VMG	3,42	4,20	4,75	5,03	5,22	5,34	5,44
52°	5,29	6,34	6,90	7,24	7,39	7,49	7,58
60°	5,68	6,59	7,14	7,49	7,63	7,73	7,83
75°	6,03	6,80	7,40	7,65	7,94	8,12	8,28
90°	6,16	7,03	7,57	7,92	8,08	8,22	8,67
110°	6,01	6,86	7,41	7,81	8,24	8,64	9,04
120°	5,61	6,63	7,23	7,65	8,03	8,48	9,40
135°	4,83	6,06	6,79	7,32	7,69	8,05	8,87
150°	4,03	5,13	6,14	6,79	7,29	7,65	8,35
Run VMG	3,49	4,44	5,32	6,05	6,64	7,13	7,82
Gybe Angles	142,4°	146,5°	151,9°	164,6°	171,2°	174,1°	176,4°

Owner
SAMPO PANK AS
Narva mnt. 11
Tallinn, Estonia
ESS Kalev JK
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name SILVA	Sail Nr EST 407
File Est0407.dxt	Data in meters/kilograms

RIG			
Forestay Tension Aft	Spreaders 3		
Inner Forestay None Fitted	Runners 0		
Carbon Mast No	Jumpers None		
Taper Hollows No	w/o Backstay No		
P 13,850	E 4,750	MDT1 0,102	TL 0,720
IG 14,090	J 4,010	MDL1 0,187	MWT 149,00
ISP 14,120	SFJ 0,000	MDT2 0,102	MCG 5,100
SPS 3,560	SPL 4,400	MDL2 0,150	CPW 2,270
BAS 1,577	TPS	MW 0,187	BD 0,160
BAL 0,152	FSP 0,066	GO 0,206	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	0,0392	

MIZZEN RIG AND SAILS	
N/A	

COMMENTS

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 30.05.2006	SG 1,0020	
FFM 1,350	FF 1,358	SFFP 0,367
FAM 1,027	FA 1,033	SAFP 10,162
W1 76,600	PD1 203,0	WD 10,430
W2 76,600	PD2 205,0	GSA 12,6
W3 76,600	PD3 205,0	RSA 4298,7
W4 76,600	PD4 206,0	PLM 2005,
Maximum beam station from stem	7,091	
RM Measured / Default	136,5 / 140,1	
Limit of positive stability	114,3°	
Stability Index	116,6	
Freeboard at mast at 4,010	1,194	

PROPELLER		
Installation Strut Drive	PRD 0,410	
Type Folding	PBW	
Twin Screw No	PIPA 0,0027	
ST1 0,042	ST3	ST5 0,280
ST2	ST4 0,090	EDL 2,480

WATER BALLAST	
N/A	

CENTERBOARD
N/A



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2009
IMS Measurement
Certificate

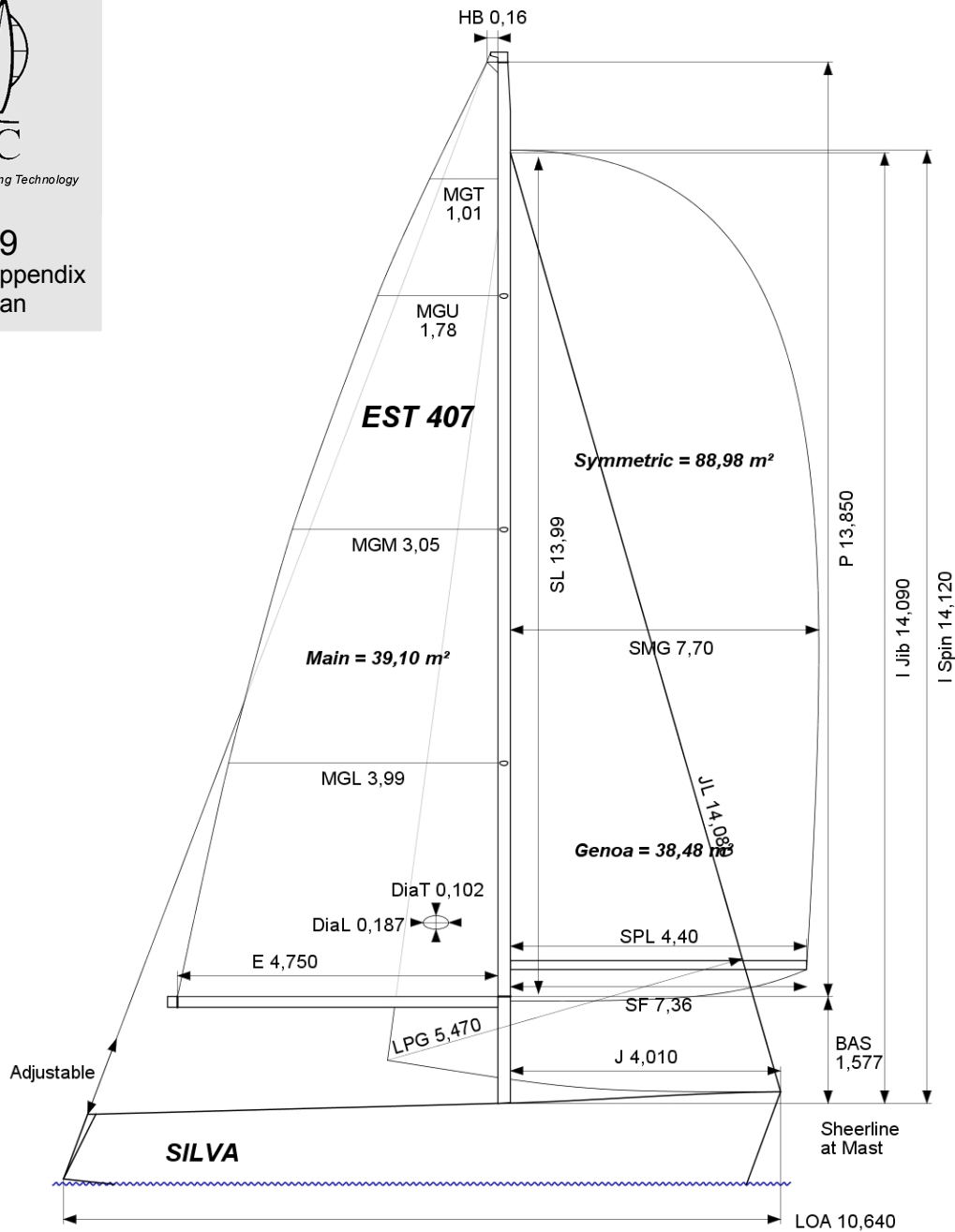
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SAILS (Maximum Areas)									
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Formula	
	0,155	1,01	1,78	3,05	3,99	17,50	39,10	P/8 · (E + 2·MGL+ 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG		
	0,08	0,70	1,37	2,73	4,07	14,08	5,47	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF						
	13,99	7,70	7,36				88,98		SL · (SF + 4·SMG) / 6



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Certificate Appendix
Sail Plan



SAILS INVENTORY														
MAINSAIL														
Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measur	Meas.Dat	Manufacturer	Material	Comment		
1	0,155	1,01	1,78	3,05	3,99	17,50	39,10	AT	25.05.2009		Unknown			
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measur	Meas.Dat	Manufacturer	Material	Comment
1	0,08	0,70	1,37	2,73	4,07	5,47	14,08	136%	38,49	AT	25.05.2009		Unknown	
2	0,08	0,70	1,36	2,71	4,05	5,45	14,00	136%	38,08	AT	25.05.2009		Unknown	
SYMMETRIC SPINNAKERS														
Id	SL	SMG	SF	Area	Measur	Meas.Dat	Manufacturer	Material	Comment					
1	13,99	7,70	7,36	88,98				Unknown						
2	13,80	7,45	7,24	85,19				Unknown						
3	13,80	6,50	7,06	76,04				Unknown						
ASYMMETRIC SPINNAKERS														
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measur	Meas.Dat	Manufacturer	Material	Comment		