

BOAT
Name MISS PIGGY
Sail Nr FIN-10103

GPH
687,5

HULL	Length Overall	9,490 m
	Maximum Beam	3,216 m
	Displacement	3 998 kg
	Draft	1,941 m
	IMS Reg. Division	Cruiser/Racer
	Dynamic Allowance	0,549%
	Fwd Accommodation	Yes
	Hull Construction	Solid
	Carbon Rudder	No
	Crew Arm Extension	
	IMS L	9,040
	VCGD	0,295
	VCGM	0,238
	Sink	16,31 kg/mm
	Wetted Area	21,08 m²



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GENERAL
Class FIRST 31.7 HR
Designer FINOT
Builder BENETEAU
Series 09.1998
Age 05.2005
Age Allowance 0,845%
Offset File F171.OFF - 17.10.1998 9:15:38
Measurement by STAMBEJ - 25.11.2010

SCORING OPTIONS	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	687,5			747,1		
Time On Time	0,8727			0,9035		
Performance Line	PLT	PLD		PLT	PLD	
	0,729	76,6		0,711	162,5	
Triple Number	Low	Medium	High	Low	Medium	High
	0,8387	1,1154	1,2791	0,6433	0,8946	1,0572

Rating Office

FSF RATING OFFICE
JOAKIM MAJANDER
MATINLAHDENKATU 3 E25
FI-02230 ESPOO FINLAND



TIME ALLOWANCES		6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity								
Beat VMG	1186,7	965,3	854,7	796,4	763,7	743,4	733,5	733,5
52°	764,3	637,7	575,0	540,3	525,6	516,7	508,8	508,8
60°	715,2	606,6	551,9	520,1	504,6	496,6	488,6	488,6
75°	679,1	583,6	534,5	505,1	483,3	469,8	460,2	460,2
90°	689,9	587,5	529,3	497,2	484,6	466,8	440,0	440,0
110°	707,2	588,3	529,4	494,2	467,0	444,0	421,8	421,8
120°	738,1	607,7	541,9	504,2	476,4	452,6	408,9	408,9
135°	838,4	669,1	582,5	532,0	499,5	473,8	430,0	430,0
150°	996,2	775,1	650,7	577,8	531,9	500,9	454,4	454,4
Run VMG	1150,3	895,1	746,7	651,4	586,8	542,0	486,0	486,0

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VPP Ver. 2011 1.02
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Selected Courses		6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Windward / Leeward	1189,0	945,4	812,6	733,5	683,3	650,2	616,7	616,7
Circular Random	962,5	770,7	666,2	604,3	565,3	539,6	507,9	507,9
Ocean for PCS	1026,1	804,6	680,2	603,5	552,7	516,6	465,8	465,8
Non Spinnaker	1014,0	806,7	692,5	624,1	580,9	552,3	517,8	517,8

Crew Weight	
Declared	550 kg
Default*	554 kg
Non Manual Power	No

Special Scoring		ToD	ToT
Double Handed	694,4	0,8641	0,8641
Non Spinnaker	715,4	0,8387	0,8387
N/S Perf. Line	53,1	0,669	0,669

Velocity Prediction in Knots for True Wind Speeds		6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Wind Velocity								
Beat Angles	44,0°	42,4°	41,1°	40,3°	39,2°	38,5°	38,8°	38,8°
Beat VMG	3,03	3,73	4,21	4,52	4,71	4,84	4,91	4,91
52°	4,71	5,65	6,26	6,66	6,85	6,97	7,08	7,08
60°	5,03	5,93	6,52	6,92	7,13	7,25	7,37	7,37
75°	5,30	6,17	6,73	7,13	7,45	7,66	7,82	7,82
90°	5,22	6,13	6,80	7,24	7,43	7,71	8,18	8,18
110°	5,09	6,12	6,80	7,28	7,71	8,11	8,54	8,54
120°	4,88	5,92	6,64	7,14	7,56	7,95	8,80	8,80
135°	4,29	5,38	6,18	6,77	7,21	7,60	8,37	8,37
150°	3,61	4,64	5,53	6,23	6,77	7,19	7,92	7,92
Run VMG	3,13	4,02	4,82	5,53	6,14	6,64	7,41	7,41
Gybe Angles	145,5°	149,2°	157,6°	164,4°	169,7°	173,5°	175,7°	175,7°

Sails Limitations	
Genoas	3
Jibs	2
Spinnakers	3
Spinnaker configuration	Symmetric

Storm Sails Areas	
Heavy Weather Jib	20,73
Storm Jib (JL=8,05)	7,68
Storm Triesail	7,60

Owner
JUHARIKONEN
KLV
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name MISS PIGGY	Sail Nr FIN-10103
File L10103.dxt	Data in meters/kilograms

RIG	
Forestay Tension Aft	Spreaders 2
Inner Forestay None Fitted	Runners 0
Carbon Mast No	Jumper Struts None
Taper Hollows No	Jib Furler No
Fiber Rigging No	Main Furler No
Lenticular Rigging No	Without Backstay No
Articulated Bowsprit No	
P 11,190	E 3,880 MDT1 0,115 TL 0,730
IG 12,302	J 3,500 MDL1 0,170 MWT 111,00
ISP 12,352	SFJ 0,050 MDT2 0,110 MCG 4,029
SPS 1,822	SPL 3,500 MDL2 0,135 CPW 2,070
BAS 1,732	TPS 0,062 MW 0,170 BD 0,130
BAL 0,190	FSP 0,062 GO 0,195 BWT

MIZZEN RIG AND SAILS	
N/A	

COMMENTS


INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 09.05.2007		SG 1,0050
FFM 1,173	FF 1,180	SFFP 0,303
FAM 0,932	FA 0,936	SAFP 8,732
W1 57,400	PD1 578,1	WD 9,340
W2 57,400	PD2 571,3	GSA 1,0
W3 57,400	PD3 552,2	RSA 1,0
W4 57,400	PD4 574,7	PLM 9000,0
Maximum beam station from stem		6,386
RM Measured / Default		74,2 / 79,0
Limit of positive stability		103,6°
Stability Index		102,9
Freeboard at mast at 3,550		1,040

PROPELLER		
Installation Strut	PRD 0,413	
Type Folding	PBW 0,120	
Twin Screw No	PIPA 0,0032	
ST1 0,037	ST3 0,180 ST5 0,270	
ST2 0,180	ST4 0,115 EDL 2,520	

WATER BALLAST	
N/A	

CENTERBOARD	
N/A	


SAILS (Maximum Areas)										
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Area (r)	Formula	
	0,130	0,78	1,41	2,42	3,25	8,80	25,43	25,88	P/8 · (E + 2·MGL + 2·MGM + 1.5·MGU + MGT + 0.5·HB)	
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG			
	0,06	0,60	1,17	2,37	3,66	12,20	4,97	29,68	0.1125·JL·(1.445·LPG+2·JGL+2·JGM+1.5·JGU+JGT+0.5·JH)	
Symmetric	SL	SMG	SF							
	11,69	6,31	6,16				61,18		SL · (SF + 4·SMG) / 6	



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IMS Measurement
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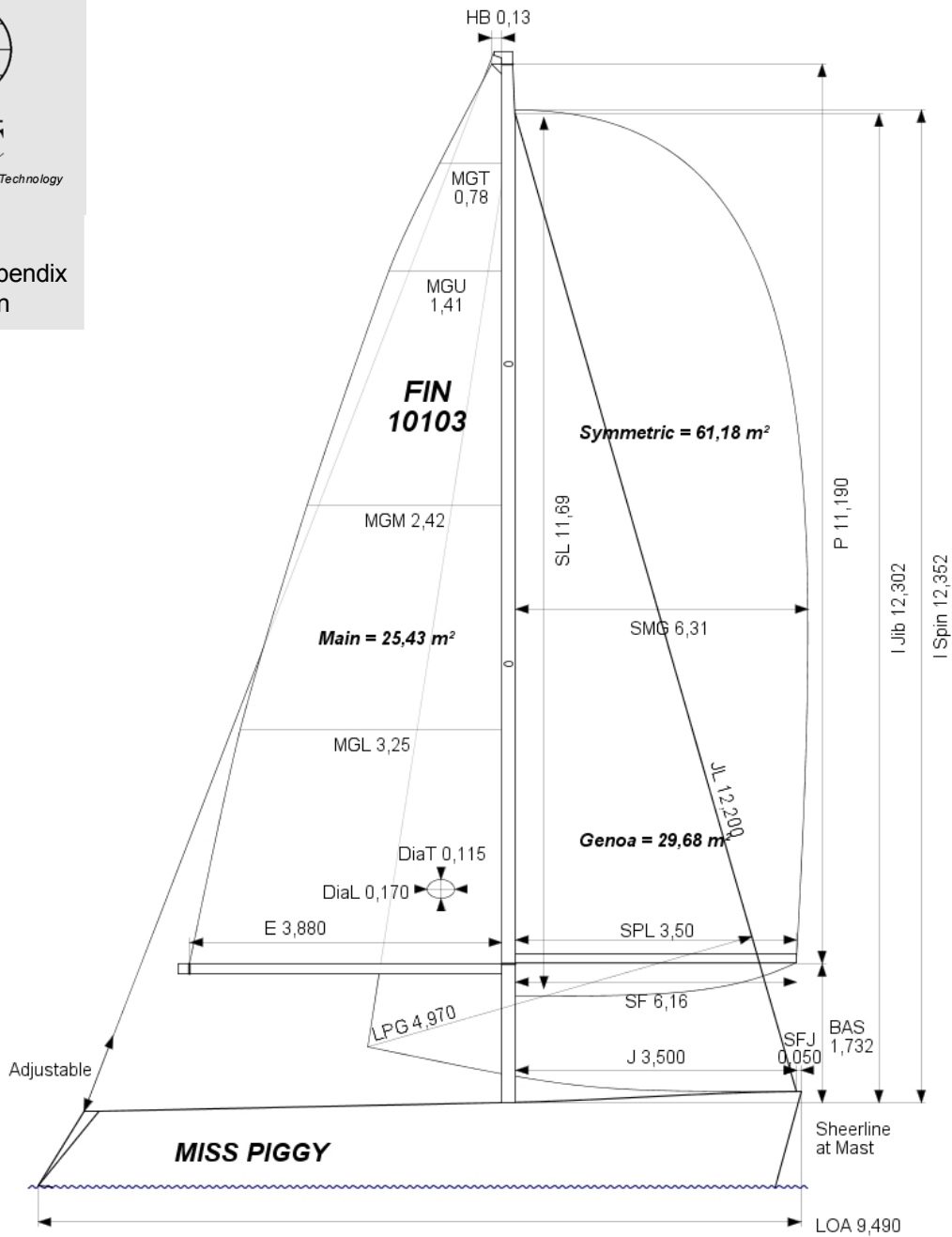
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Sail Plan



SAILS INVENTORY

MAINSAIL

Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	0,130	0,78	1,41	2,42	3,25	8,80	25,43	Stambej	07.12.2006	Elvström	Kevlar	
2	0,125	0,74	1,34	2,36	3,17	15,30	24,83	Stambej	14.11.2006	Quantum	Dacron	

JIBS / GENOAS

Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Ovrlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
G1	0,06	0,60	1,17	2,37	3,66	4,97	12,20	142%	29,68	Hannelius	25.11.2010	WB-Sails	Carbon	
GII						4,90	11,78	140%	28,86	Stambej	14.11.2006	Elvström	Kevlar	
GIII						3,81	11,57	109%	22,04	Stambej	14.02.2006	Quantum	Dacron	

SYMMETRIC SPINNAKERS

Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment
1	11,72	6,22	6,04	60,40	Lopmeri	10.05.2010	Elvström	Nylon	
2	11,69	6,31	6,16	61,18	Lopmeri	30.06.2010	Quantum	Nylon	

ASYMMETRIC SPINNAKERS

Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment
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