

BOAT
Name BUSYBODY Sail Nr FIN-19

GPH
564,7

HULL					
Length Overall	12,350 m				
Maximum Beam	3,637 m				
Displacement	6 917 kg				
Draft	2,500 m				
IMS Reg. Division	Cruiser/Racer				
Dynamic Allowance	0,212%				
Fwd Accommodation	Yes				
Hull Construction	Cored				
Carbon Rudder	No				
Trim Tab	No				
IMS L	11,372	VCGD	-0,046	VCGM	-0,067
Sink	23,07 kg/mm	Wetted Area	30,80 m²		



2009
ORC International
Certificate

GENERAL
Class X-41
Designer JEPPESEN
Builder X-YACHTS
Series 12.2006
Age 06.2007
Age Allowance 0,195%
Offset File X41.OFF - 3.11.2007 12:06:22
Measurement by KALL - 10.05.2008

SCORING OPTIONS	OFFSHORE			INSHORE		
	COASTAL / LONG DISTANCE			WINDWARD / LEEWARD		
Time On Distance	564,7			631,0		
Time On Time	1,0626			1,0697		
Performance Line	PLT	PLD		PLT	PLD	
	0,945	110,7		1,153	324,5	
Triple Number	Low	Medium	High	Low	Medium	High
	1,0466	1,3472	1,5148	0,7923	1,0778	1,2493

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

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	970,0	787,2	699,9	662,3	640,4	627,4	618,6
52°	629,1	520,1	475,9	459,0	449,3	443,7	439,6
60°	586,9	498,6	457,8	441,9	433,8	428,6	424,5
75°	552,2	472,7	443,8	424,2	412,7	406,3	399,7
90°	519,1	450,8	427,0	415,8	407,0	391,3	377,9
110°	525,4	463,0	429,2	402,0	385,3	374,6	355,8
120°	555,7	481,6	443,0	416,2	389,4	364,7	340,3
135°	658,4	531,1	475,7	442,0	417,9	394,2	340,7
150°	796,5	632,9	533,4	480,4	446,9	423,5	381,4
Run VMG	919,7	730,8	615,7	546,9	497,2	461,6	415,8

Certificate
Number 00019 ORC Ref FIN00000024 Issued On 10.2.2009 VPP Ver. 1.00 Valid until 31.12.2008

Crew Weight
Declared 755 kg Default* 818 kg

Special Scoring
ToD ToT Double Handed 568,0 1,0564 Non Spinnaker 613,4 0,9782

Selected Courses							
Windward / Leeward	962,4	771,4	669,1	611,9	575,5	550,6	522,4
Circular Random	776,0	627,3	548,0	502,0	473,4	454,3	429,3
Ocean for PCS	830,7	656,9	560,6	501,9	462,9	434,7	393,3
Non Spinnaker	866,9	690,3	593,7	536,4	500,6	477,2	448,6

Sails Limitations
Genoas Jibs Spinnakers 0 5 4
Spinnaker configuration Asymmetric-Pole

Storm Sails Areas
Heavy Weather Jib 39,44 Storm Jib 14,61 Storm Jib JL 11,11 Storm Trysail 15,58

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°	43,8°	40,2°	38,4°	37,6°	37,1°	36,9°
Beat VMG	3,71	4,57	5,14	5,44	5,62	5,74	5,82
52°	5,72	6,92	7,56	7,84	8,01	8,11	8,19
60°	6,13	7,22	7,86	8,15	8,30	8,40	8,48
75°	6,52	7,62	8,11	8,49	8,72	8,86	9,01
90°	6,94	7,99	8,43	8,66	8,85	9,20	9,53
110°	6,85	7,78	8,39	8,95	9,34	9,61	10,12
120°	6,48	7,47	8,13	8,65	9,25	9,87	10,58
135°	5,47	6,78	7,57	8,15	8,61	9,13	10,57
150°	4,52	5,69	6,75	7,49	8,06	8,50	9,44
Run VMG	3,91	4,93	5,85	6,58	7,24	7,80	8,66
Gybe Angles	140,2°	142,6°	150,9°	160,5°	167,0°	172,1°	174,2°

Owner
PEKKA KAUPPI KARINKANNANTIE 37 FI-90800 OULU OM
I certify that I understand my responsibilities under ORC Rules and Regulations
Signature

BOAT	
Name BUSYBODY File L-0019.dxt	Sail Nr FIN-19 Data in meters/kilograms

INCLINING TEST AND FREEBOARDS		
Inclining Test Current Inclining		
Flotation date 14.06.2007	SG 1,0040	
FFM 1,434	FF 1,442	SFFP 0,200
FAM 1,089	FA 1,094	SAFP 11,995
W1 100,00	PD1 558,8	WD 13,400
W2 100,00	PD2 556,5	GSA 1,0
W3 100,00	PD3 544,4	RSA 1,0
W4 100,00	PD4 543,1	PLM 9000,0
Maximum beam station from stem		8,278
RM Measured / Def ault		191,7 / 199,3
Limit of positiv e stability		123,2°
Stability Index		126,8
Freeboard at mast at 5,220		1,207



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IMS Measurement
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RIG				
Forestay Tension Aft	Spreaders 2			
Inner Forestay None Fitted	Runners 0			
Carbon Mast Yes	Jumpers None			
Taper Hollows No	w/o Backstay No			
P 16,250	E 5,480	MDT1 0,131	TL 1,030	
IG 17,013	J 4,930	MDL1 0,258	MWT 214,00	
ISP 18,165	SFJ 0,290	MDT2 0,122	MCG 5,800	
SPS 3,770	SPL 5,150	MDL2 0,190	CPW 0,000	
BAS 1,840	TPS 5,170	MW 0,258	BD 0,270	
BAL 0,150	FSP 0,084	GO 0,281	BWT 0,00	

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	0,0285	

PROPELLER			
Installation Strut Drive	PRD 0,430		
Type Folding	PBW 0,000		
Twin Screw No	PIPA 0,0041		
ST1 0,065	ST3 0,180	ST5 0,325	
ST2 0,180	ST4 0,110	EDL 1,540	

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Number 00019	
ORC Ref FIN00000024	
Issued On 10.2.2009	
VPP Ver. 1.00	
Valid until 31.12.2008	

MIZZEN RIG AND SAILS	
N/A	

WATER BALLAST	
N/A	

COMMENTS	
N/A	

CENTERBOARD	
N/A	

SAILS (Maximum Areas)								
Mainsail	HB	MGT	MGU	MGM	MGL	MSW	Area	Formula
	0,190	1,21	2,09	3,57	4,59	26,45	53,30	$P/8 \cdot (E + 2 \cdot MGL + 2 \cdot MGM + 1.5 \cdot MGU + MGT + 0.5 \cdot HB)$
Jib/Genoa	JH	JGT	JGU	JGM	JGL	JL	LPG	
	0,12	0,76	1,52	2,60	3,84	16,85	5,20	$0.1125 \cdot JL \cdot (1.445 \cdot LPG + 2 \cdot JGL + 2 \cdot JGM + 1.5 \cdot JGU + JGT + 0.5 \cdot JH)$
Symmetric	SL	SMG	SF					
	17,90	9,04	8,48				133,18	$SL \cdot (SF + 4 \cdot SMG) / 6$
Asymmetric	ASL	AMG	ASF					
	17,66	8,95	8,47				130,30	$ASL \cdot (ASF + 4 \cdot AMG) / 6$

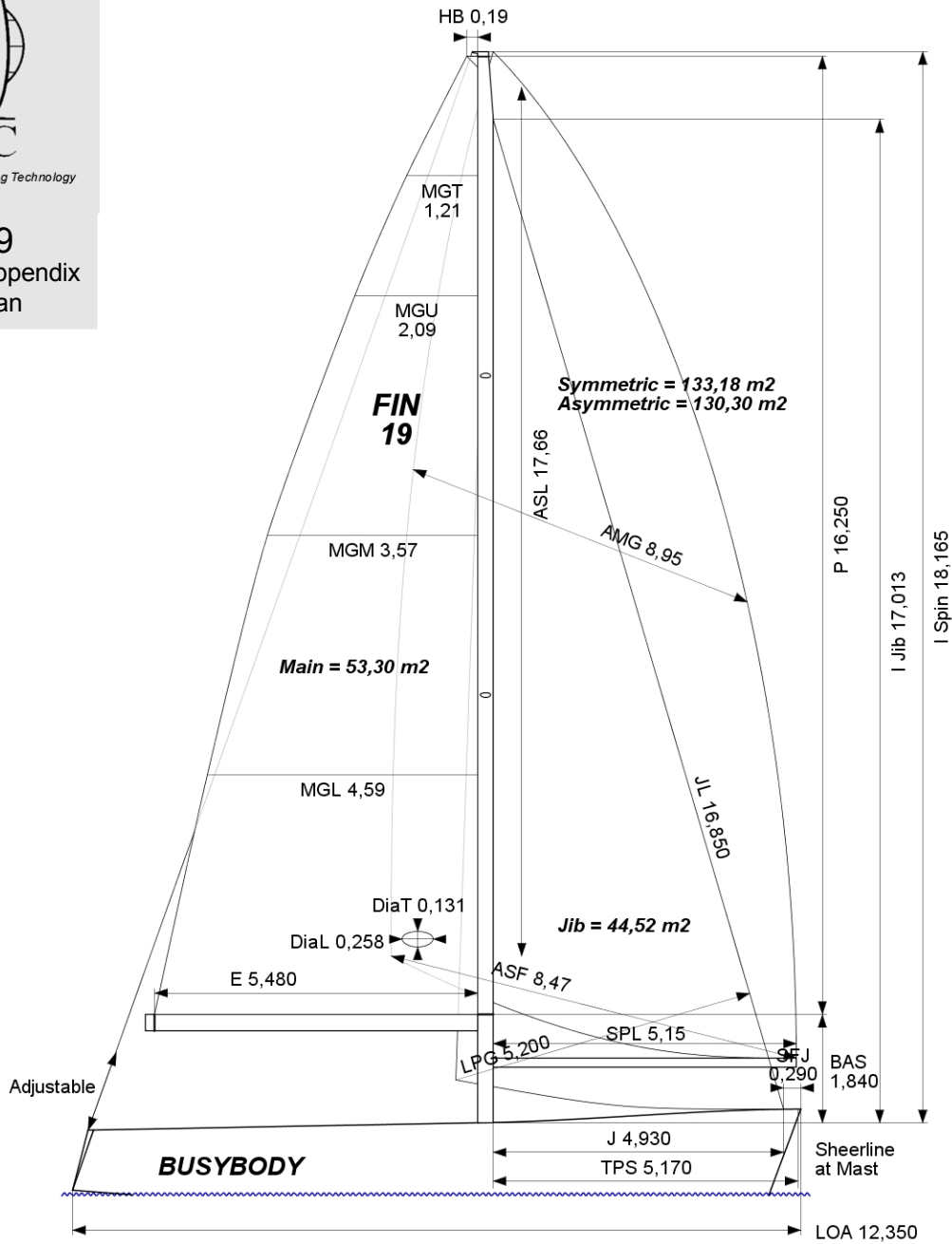
MEASUREMENT INVENTORY			
Measurer KALL			
Date 14.6.2008			
Comment			
Id	Item	Weight	Distanc Description
1	Anchor	13,0	10,00 Anchor
1	Chain	5,0	10,00 Rope
Id	Item	Maker	Model
1	Engine	VP	D2
Id	Item	Weight	Description

MEASUREMENT INVENTORY						
Id	Item	Tank Use	Tank Type	Capct	Dist.	Condt Description
4	Liquid Tank	FUEL		90,0	5,90	0,0 FULL, FB
3	Liquid Tank	WATER		180,0	5,60	0,0 EMPTY
2	Liquid Tank	HOLDING		35,0	4,30	0,0 EMPTY
1	Liquid Tank	LPG		3,0	12,00	0,0 FULL
Id	Item	Weight	Distanc Description			
2	Battery	0,0	7,75 Engine 1*55 Ah			
1	Battery	0,0	4,90 Service 2*115 Ah			



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Certificate Appendix
Sail Plan



SAILS INVENTORY

MANSAIL														
Id	HB	MGT	MGU	MGM	MGL	MSW	Area	Measurer	Meas.Date	Manufacture	Material	Comment		
1	0,190	1,21	2,09	3,57	4,59	26,45	53,30	NORTH	16.05.2007	NORTH	Unknown			
JIBS / GENOAS														
Id	JH	JGT	JGU	JGM	JGL	LPG	JL	Overlp	Area	Measurer	Meas.Date	Manufacture	Material	Comment
LIGHT	0,12	0,00	1,52	2,60	3,84	5,20	16,85	105%	44,33	NORTH	15.05.2007	NORTH		
MED	0,12	0,00	1,49	2,60	3,82	5,17	16,85	105%	44,08	NORTH	16.05.2007	NORTH		
SYMMETRIC SPINNAKERS														
Id	SL	SMG	SF	Area	Measurer	Meas.Date	Manufacture	Material	Comment					
1	17,90	9,04	8,48	133,18	HUTTUNEN	10.05.2008	NORTH							
ASYMMETRIC SPINNAKERS														
Id	SLU	SLE	ASL	AMG	ASF	Area	Kind	Measurer	Meas.Date	Manufacture	Material	Comment		
1	18,28	17,04	17,66	8,95	8,47	130,30	asym	HUTTUNEN	05.05.2008	NORTH	Unknown			
0	17,87	16,73	17,30	6,23	8,25	95,64	asym	HUTTUNEN	05.05.2008	NORTH	Unknown			